Urino can oct as a culturo medium for the growth of E. coli and other organisms. When urine is contaminated, bactorial proliferation is influenced by soveral factors-rate of urino flow, frequency of voiding, volume of residual urine and nutibueterial action of the bladder mucoso.2 Whon the concentration of bacteria builds to a high enough level in the ur/ne, acute cystitis usually develops,

Gantanol*(sulfamethoxazole) for early, decisive control

Early, aggressive therapy with Gantanol (sulfamethoxazole) may control acute, nonobstructed cystitis due to E. coli and other suscaptible gram-nagntive and grampositive organisms commonly implicated in urinary tract infections, and thus help prevent chronic or ascending

rapid, long-lasting antibacterial levels

Peak therapeutic effectiveness starts within 2 to 3 hours of the initial 2-Gm adult dose. Each subsequent 1-Gm dose maintains therapeutic blood and urine levels up to 12 hours.

prompt clinical response

Significant symptomatic improvement of acute cystitis en occurs within 24 to 48 hours after the start of Gaotanol tharapy. In fact, symptoms may subside so rapidly that it is important to emphasize that patients continue medication until treatment is adequate. The usual precoutions in sulfonamide therapy should be observed, including mainteoance of adequate fluid intake,

your option: tablets or suspension

Gantanol comes in two b.l.d. dosage forms providing around-the-clock therapy-tablets or pleasant-tasting, cherry flovored suspension. Either way, Gantanol is effective, convenient and economical therapy in nonobstructed urinary tract infections caused by susceptible

References: 1, Asscher, A. W.; Sussman, M., and Weiser, R.; Urol, Dig., 7: (4)22, 1968. 2, O'Crady, R, and Cattell, W. R.; Brtt. J. Urol., 88:156, 1966.

Before prescribing, pienso consult complete product information, a summary of which follows.

Indications Effective in acute, recurrent pr chronic urinary tract infections (primurily pythone-plinitis, pyclitis and cystitis) due to susceptible organisms (usually E. coli, Klobsiella-Aerolancier, Staphylococcus aureus, Protous mirobilis, and, less frequently, Protous unigaris) and in the absence of obstructive urepathy or fundam bushes. Motor Core requestry, Projets unigate) and in the message of obstructive property or funding backets. Note: Carefully coordinate in vitro sulformalde sunsitivity tests with bacteriologic and clinical response. Add malinohomologic acid to culture media of patients receiving sulforamides. Resistant organisms present a current problem to the usofulness of anti-incternal agents. Blood levels should be recogned in callents receiving problem to the usefulness of mithecterial agents. Blood levels should be measured in patients receiving sulfonamides for serious infections, since there may be wide variations with identical doses; 20 mg/100 ml should be the maximum total sulfonamide level, as adverse reactions occur more frequently above this

Contraindigations: Sulfonamide hypersensitivity; infants less than 2 months of age (except adjunctively with pyrimethamine in congenital toxoplasmosis); pregnancy at term and during nursing period.

Warnings: Safe use in pregnancy has not been established, and teratogenicity potential his not been thoroughly investigated. Sulfonamides will not cradicate or prevent sequelae to group A streptococcal infections, i.e., rhoumatic faver, glomerulone phritis. Deaths from hypersensitivity reactions, agranulocytosis, splestic anemia and other blood dyseresias have been reported; early clinical signs such as sore throat, fever, pellor, purpura or favordise reactions. throat, fever, pellor, purpura or faundice may indicatu serious blood disordere. Complete blood counts and urinalysis with eareful microscopic examination are recommended frequantly during sulfonamida therapy. Clinical data are insufficient on prolonged or recurrent therapy io chronic renal diseases of children.

Gm b.i.d. or t.i.e. Children—0.5 G weight initially, Maximum dose mg/kg/24 hrs.

Supplied: E suspension contest.

Precautions: Use with caution in patients with impaired renal or hepatic function, severe allergy, bronchiel asthma and in glucose-6-phosphate dehy-

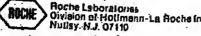
drogenuse-delle fout individuals. In the latter, describated hemolysis may need. Maintain allequate fold intake to provent crystallight and stone formation.

Adverso Heartlenst Bland dyscresius: ngranu-Adverso ifeactions Bland dyscrosias: agrauheybols, aplastic mannia, thrembacytopenia,
lankagenia, hemolyticomenia, purpura, hypoprothrombacenia and methermuglobiannia allorgic
reactions: erythema multifunna (Stevens-Johason
syndrumn), skin emptions, epidermal necrolysis,
uritearin, serum sicknuss, praritus, exfoliativo dematitis, anaphylacioid reactimus, perturbital edema,
confunctival and seleval injection, photosensitization,
arthralgia and allergic myocarditis; gastroinesinal
reactions: nausca, emesis, abdominal pains, hepatitis,
diarrhaa, anorexia, panerpatitis and siomailitis; diarrhan, nausea, emesis, nbdominal paine, hepatitis, diarrhan, anorexia, paneroatitis and stomulitis; C.N.S. reactions: headache, peripheral neuritis, mental dupression, convulsions, niaxia, hallucinations, tinnitus, vertigo and insonnala; and miscellaneous reactions: drug fovor, chilis, toxic nephrosis with oliguria and omnie, periarteritis nudosa and L.E. phonomenna. Duo to certain chemical similarities with some goitrogens, diureties increase leading and some goltrogens, directies (acetazolamido and thiazidas) and oral hypoglycemic agents, sulfonamides heve caused raru instances of guiter production directs and hypoglycemia. Gross-sensitivity with these ogenis may exist.

Dosege: Systemic sulfonamides ara contra-idicated in infents under 2 months of age, except adjunctively with pyrimethanine in congenital toro-plasmosis. Usual dosage is as follows:

Adults - 2 Gm (4 tebs or tensp.) initially, then 1 b.i.d. or t.i.d. depending on severily of infection. Children - 0.5 Gm (1 tab or tensp.)/20 lbs of body weight initially, followed by 0.25 Gm/20 lbs b.l.d.
Maximum dose for children should not exceed 75

Supplied: Each tablet or tenspoonful (5 ml) of suspension contains 0.5 Cm sulfamethoxazoic.



right for acute, nonobstructed cystitis Gantanol B.I.D. (sulfamethoxazole) Tablets/Suspension

12 hours of therapy with every dose

Disodium Cromoglycate Found Effective Against Asthma: Page 6

Emergency Room Feared to Be Replacing Family Doctor: Page 20

Medical Tribune

Medical News

world news of medicine and its practice—fast, accurate, complete

Wednesday, October 6, 1971 Vol. 12, No. 39

In United States

Seen Neglected

BAL HARBOUR, FLA.-Disagreement over

precise standerds for human vitamin A

requirements could be overshadowing the

warnings of several surveys that some

North Americans have scrious vitemin A

deficiencies, the third Western Hemispbere

problem with such fervor that we forget

the goni-an acceptable vitamin A status for the whole population," cautioned T. Keith Murray, Ph.D. chief of the Nutri-

tion Research Division of Canada's Food

Referring to the large number of diet

surveya made since recommended dally

diowances were developed, Dr. Murray

sald two features stand out: frequent re-

ports of insufficient vitemin A intake and

their relative lack of impact on public

"This is a pity," he said, "because diet aurveys should be the cerly warning pert

"Let us not argue the fine details of the

Nutrition Congress was told here.

and Drug Directorate.

Breast Cancer Excision Less With Selection

Paris-More careful selection of candidates for various types of Irentment is expected to spare many women with breast cancer the disfiguring and psychologically traumatic experience of radical mastectomy, o group of scientists agreed here at a round table conducted by the European Organization for Research on Treatment of Cancer. The session was held at the Centre National de Recherche Scientifique.

Much of the support for the belief came from a preliminary report by Dr. John Hayward, a research fellow of the department of surgery, Guy's Hospital, London, on a study of more than 400 patients conducted in that city. Designed to reveal the relative effectiveness of different kinds of operations, the study has In recent weeka been indicatlog thet certein signs can be used to select candidates for different operotions. "This is highly prellminary," Dr. Have detailed MEDICAL TRIBUNE, "and should not be interpreted as a fical and definitive result.

Dr. Hayward's study was designed to show the difference between results obtained by radlesl mastectomy and the much smaller operation of wide excision. As defloed and used in the study, wide exeision entailed removing the tumor from Continued on page 19

Authorities in U.K. No Longer Requiring Smallpox Immunity

LONDON-British health authorities will no longer require routine immunization of children against smallpox.

Tha nearly complete eradication of smallpox throughout the world and the absance of any significant risk of infeotion In the British Isles have made routine yaccination unnecessary, health officials said.

The decision was announced in the House of Commons following a recommendation by the Department of Health's joint committee on vaccioation and im munization. The action had been predicted two weeks earlier by Medical Naws-Tribune (British sister paper of MEOICAL TEIB-

Sir Keith Joseph, Secretary of State for Social Services, told the House that smallpox is now endemic in only a relatively small part of Africa and in portions of the Indiao subcontinent. He credited the eradicatioo campaign of the World Health. Organization for the virtual elimination of

the smallpox risk in most nations. The joint committee has concluded that Britons today are less likely to be exposed to the threat of smallpox infection than

For Lung Cripples



Portable lung is checked by Dr. E. C. Peirce, designer, and Naocy Johnson, R.N., at Mount Sinal Medical Center, New York. Now being tested on dogs, clinical trials are predicted in five yeers. Device may aid patients severely crippied by respiratory diseases. It was described of artificial organs symposium at N.Y.U. Medical Center.

Columbia University Survey of Drug Use

15% of Young Americans Have Smoked Marijuana

NEWARK, N.J.-Abnut 15 per ceot of Americans from 12 to 17 years of age-17 per cent of the boys and 14 per cent of the girls-have smoked marijuana, according to a survey of adolescent drug use by the Columbia University School of Public

The results of the national household-based survey-described as the first of its kind-were reported here at the first In-

ternational Conference on Student Drug **Vitamin A Lack**

In addition to cherting the use of mnrijuana by region, ege, and sex, the survey obtained information about the use of amphetamines, barbiturates, glue, LSD, heroin, eigarettes, end elcohol.

The study was designed to serve as a kind of national yardstick for Columbia's ongoing investigation of drug behavior among 35,000 students in 25 high schools in four regions of the United States.

The investigators grouped 9 per cent of

Sickle-Cell Anemia Diagnosed By 5 Newly Developed Tests

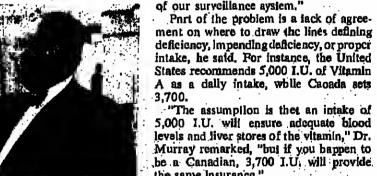
CHICAGO-The development of five new tests for the diagnosis of sickle-cell anemia was reported here at the 24th annual meeting of the American Association of Biood Banks by a team headed by Dr. Paul L. Wolf, Associate Professor of Pathology at

2-8¢ ench, and will permit mass screenings of the black population ecross the country, Dr. Wolf said.



Display depicting dithionite test for hemoglobin S is demonstrated to Dr. William Quentin Ascari of Somerville, N. J., by Robert Milran Nabandian, coexhibitor, of been found with no physical symptoms appared a Rapids, Mich., at American Association of Biood Banks convention in Chicago.

A year ago, he releted, the research team unveiled a new trentment of sickle-cell enemia-the intravenous infusion of urea Stenford University, and Dr. Robert M. in invert sugar-based on the definition of Nalbandian, associate pathologist at the molecular mechanism of sickling by Biodgett Memorial Hospital, Grand Makio Murayema, Ph.D., of the Natlonal



"The assumption is thet an intake of 5,000 I.U. will ensure adequate blood levels and liver stores of the vitamin," Dr. Murray remarked, "but if you bappen to be a Canadian, 3,700 I.U. will provide the same insurance." In many cases, he seld, low intakes and

even low vitamin A blood levels have

Evidence Is Found That Aging 'Turns Off' Protein Synthesis

Medical Tribune Report

BAR HARBOR, ME.-The concept of aging as an active process that "turns off" pro- as skin cell mitosis in animals. mechaoism of geoetic instructions.

Strehler, Ph.D., of the University of hardly more than three weeks while the amino acid a specific tRNA needs tha help. Southern California, apparently furoishes plant is budding its more specialized leaves, of a specific enzyme-a synthetise that the first solid avidence for such a phe- furnishes an accelerated example of the charges the tRNA.

teln synthesis at the production lavel was The U.S.C. experiments, conducted supported to a report here that points to an principally by Michael D. Blck, Ph.D., inhibitor for damping the translation were done with soybean plant cotyledons, The work, described by Bernard L. seeds. The cotyledon, which functions for ger RNA. However, to greb a specific

celvably could turn out to be acelogous to ability of transfer RNA (tRNA) to bethe "chalones" that inhibit such functions come "charged" at times early and late in the cotyledon life.

tRNA rounds up amino acids from the cytoplesm for stringlog together into protein molecules according to the plan the embryo leaves that spring from the brought from the cell nucleus by messen-

at any time aince the disease was first renomenon in an aging biologic system.

Although the inhibitor itself has oot yet
In fact, Dr. George Gober, the departbeen isolated, "we're working oo it," said lational machinery during aging, Dra. Bick
Continued on page 19

The U.S.C. Investigators worked with
the mechanism for one emino acid, leuthe mechanism for one

CombinationTherapy Benefit to Children With Sarcoma Cases

GENOA, ITALY-Rigorous treatment with radiotherapy ond cytotoxic "eocktails" has given remorkable results in child patients suffering from malignant lymphonia, a South African pediatrle surgeon has re-

Dr. S. Cywes, of the Department of Pediatric Surgery at tha University of Cape Town, told the 18th International Congress of Pedlatric Surgeons here that preliminary results of his work had led to a 73 per cent survival rate in 26 patients since the stort of treatment in 1968.

This compares fovorably, he said, with an 11 per cent survivol rate for patients between 1951 and 1958. These patients were treated by surgery, sometimes with or without radiotherapy. Simple application of cytotoxics from 1959 to 1967 roised the survival rate to 20 per cent.

Principal Agents Listed

The principal agents used, he said, are inechlorethamine hydrochloride (nitrogen mustard), cyclophosphamide, and vinblastine From 1959 to 1967, as these agents were being developed, there were 61 enses with 12 survivors. High-voltage radiutherapy is applied, to 3,400 rads in four tu five weeks, in cases of Hodgkin's and giant follicular lymphoma and nonspecific lymphoma, where the disease is localized to a single lymphotic chain or extranodal site, and where the disease is limited to two or more lymphatic chains and/or extranodal

sites nhove or below the diaphragm. In cases where the discose is present nbove and below the diaphragm and when generalized or with hepotomegaly, splenomegaly, or C.N.S. ur hone morrow invasion, the cytotuxic "cocktail" is adminis-

Cytotoxic Treatment Described

The cytotoxic trentment consists of mechlorethamine hydrochloride 6 mg./sq. M. hody surface, un days one and seven; vinbloatine 1.4 mg/sq. M. body surface at ilays one and seven; doily procurbizing 100 mg/sq. M. bndy surface and dnily prednisone nt 40 mg./sq. M. body surfoce. As part of the treatment, two weeks of chemotherapy is followed by two weeks

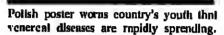
"During the two weeks of thempy mustime and vinblastine are given intravenously on day one and day seven with daily procarbazine and dally predaisone through tho 14-day period," he said.

In cases of lymphosarcoma and reticulum cell sarcoma and Burkilt-type lymphoma, cyclophosphamide is given at all stages in massive doses of about 50 mg./ Kg. intravenously every two to three weeks for six courses.

Of 26 children treated so far, there have been 18 survivors up to now, Dr. Cwyes said. Survival in cases of Hodgkin's and giant follicular lymphoma is 91 per cent and reliculum cell sarcoma 60 per cent.







Polish poster worms country's youth that Poster with symbol of discose cautions, "Be worned-VD is o growing mennee,"

Authorities in Poland Launch Campaign to Check VD Spread

Medical Tribune World Service

Warsaw-More than a million posters are on display throughout Poland as part of a drive by the health authorities to cheek the spread of venereal diseases.

The campaign places emphosis on publie information, stepped-up training in venereolugy for doctors and nurses, and stricter hospital and pre-employment

Numbar Droppad in 1970

In 1970, after seven years of steady increase, the number of reported cases of early pranifest syphilis dropped by 1,700. The gonurrhea picture, ulthough the trend is still slightly upward, also showed a sig-

Swift und effective petion holled nu epidenie of VID in Paland In the years Immediotely after World Wnr If when the country was in severo economic difficulties and gravely short of manpawer, medi-

enl equipment, and drugs, health officials

More recently, moving nut of the classic loci in densely populated scaports, venereal diseases have again become a problem in the relatively affluent modern Pulish society, particularly in teen-agers.

Officially reported cases of early infections syphilis more than doubled between 1964 and 1968, frum 7,435 to 16,153. Gunorrhen cases also elimbed steeply, necording to official returns, rising from 38,449 in 1953 to 48,910 in 1968, Experts consider, however, that these ligures are too law to give an accurate picture of the

In strengthen the fight ugainst venereal liseases, the slute muchinery for handling the problem has been revamped. The lastitute of Venercology in Warshw, dissolved in 1957, was set up again in 1970 with the alm of taking over coordination of all anti-VI) work in the ecountry.

Pregnancy Is Brought to Term Under Hemodialysis

Medical Tribune World Service

EAST BERLIN-A report was made here on what the author believes to be the first easo in the world of a pntlent who conceived and brought her pregnoncy to full term while the was undergoing regular hemo-

The report was presented by Dr. P. Confortini, of the Ospedale Civile, Verona, Italy, to the eighth Conference of the European Dialysis and Transplant

The patient, now 34, has been attend-Her pregnancy was discovered in Jonuary,

1970, and ogninst medical odvice sho insisted on having her child.

During pregnancy, no change in pressure was unserved. Humorol changes were: BUN +15 per cent; creatinine +25 per cent, uric acid +20 per cent. Ten whole blood transfusions were made.

Weight increase was kept within the normal range and totaled 9.5 Kg. No special elinical problems arose in the course of the pregnoncy, and in September the woman gave birth easily to a mole child reighing 1.95 Kg.

The child had the same humoral volues ing R.D.T. for sevore renal failure follow- as the mother for BUN, creatinino, and ing chronic glomerulonephritis since 1967. tric acid hut had no anemia. Polyurin normalized humoral halance in five days.

Antimalarial Drug Found Helpful Against Leprosy

Medical Telbune World Service

MANUA-A drug once used for the treatment of maluria has been found to be more effective ugainst leprosy than dapsage, Dr. Itanyani Clareia reported to the annual convention here of the Associatiao of Phil. ippino Military Surgeons.

The drug, 2-methaxy-6-chloro-9-acts diue, is enhanced by combination with dapsone, he said.

A two-year controlled study of 40 pg. tients at the Tala Leprosarium shawed that there was a complete remission of lesions. pain, and fever following treatment with a combination of the two drugs, Dr. Garcia said,

When 2-methoxy-6-chloro-9-acridine alone was injected subcutaneously for three to 12 months, all patients showed marked regression of symptoms and complete relief from nasni congestion. The blood count and iron content became anmal and there was no increase to the bacterial count, Other clinical parameters did not change, but skin lesions beoled more rupidly than when treated with dapsone

Before treatment all patients manifested swelling of joints, generalized prurits uasal congestion, abnormal blood counter and skin lesions ranging from mild to

Dr. Garcia did not discount the posibility of reintection after two years. He suggested that mother study be done aver a period of not less that five years.

Yemeni-Born MDs on Increase

Medical Tribune Would Service

TAIR, YEMEN -The number of native lon ductors in Yemen has risen from two lors in the past 10 years, according to a Red Health Organization report, Nurses vimidwives have increased from 16 to 80.

India May Open School to Teach Traditional Medical Practice

Meda of Tubone World Service

New Detait - The Indian Government is considering a proposal to set up a medical school specializing to the praclice of Indian traditional medicine.

Religious orders have already pledged to meet part of the cost of such a schnul, Health Minister K. Anhazhagan told the Legislative Assembly. In creasing demonds made on the medical profession in India, he explained, mean but the Western system of medicine dune is not sufficient.

"It is up to the people to take advaninge of the possibilities held forth by the ndigenum system of medicine," Mr. Aubazingan said. "Practitioners of the Western system linve to shed some of heir hustility to the indigenous systems and encourage their growth hy scientifle study."

Indigenuus medicine in India emphasizes the use of herbs. In rural areas it still provides the basis fur much medi-

In Consullation Chess Frablem

letters to Tribune Curinony 15, 19, 26, 29

Editorials

Car Clinic Sports Report 29
Medical Meeting Schedule 31

Coming next lesual see page 3

MEGICAL TENSINE II published each Wednes-day by Medical Tribine, Inc., \$15 East 62nd \$1. New Yark, N.Y., 19021; Controlled Circle latton possage paid at Familingdale, N.Y., 11735, Subscription \$12.50.

In Many Nations

Medical Tribune Report

ATLANTA, GA .- The incidence of poliomyelitis has fallen to "insignificant proportions" in Europe, North America, Australia, New Zealand, and a few other countries, including the Soviet Union, the Center for Disease Control reported here.

> The same trend is observed in a group of countries in Asia and in Central and South America where adequate vaccination programs have been implemented, the CDC said. Throughout much of Africo and Asia, however, a definite increase in polio has been seen.

In most countries in Central and South America, the polio situation may be characterized as "unstoble" and "disquieting." Futher positive changes in this part of the world depend greatly on efforts to organize vaccination programs.

Poliovirus typo I is still responsible for the majority of cases in those constries with endemic discose or frequent outbreaks, the CDC noted.

Tropical and subtropical countries with a rising level of community and personal hygiene may expect increasing numbers of paralytic poliomyelitis cases, Large outbreaks, such as those occurring in the temperate countries before pollo vaccines were available, should be onlicipated.

The CDC report was based on notifications of the occurrence of polio received by the World Health Organization through weekly, monthly, or anoual summaries submitted by health administrations.

"ft must be horne in mind, however, that reporting both on the national as well as the international level is frequently incomplete," the CDC sold, "Furthermore, for 1969 and 1970 the date are in many instances provisional, including only a portion of the indicated caleodar year."

Slight Rise Noted in U.S.

A slight rise in the number of cases betweeo 1969 and 1970-from 18 to 30 cases-In the United States was recorded. "The increasa, though amail, is being carefully watched," tha CDC sald, "Atlantion has been drawn to the foct that there has been a steady decline in the proportion of children completely immuoized agaiost polio from 1964 to 1971, Pockets of susceptible children are knowe to be developing in many of the larger inner-city areas."

The combined data from the American region indicate that in most countries the pollo situation "is not yet under effective control."

Io the European region, 10 countries out of 22 reporting for 1970 had no cases and an additional five countries notified three cases or fewer. In the Soviet Union. in 1958, 22,054 polio cases were registered. There were for the individuol years 1966 to 1969 only 300, 290, 120, and 190 caaes, respectively.

In the Southeast Asian region, the overall epidemiologic situation in 1970 is obscured by the absence of data from such countries as India and Iodonesia.

In the African region, the total number of cases for 1970 is uousually low, but this is largely because balf the countries have either not reported or submitted incom-

COMING NEXT ISSUE

- Drug abuse Australians debate Q.P.s' role ! warning of dangers.
- Patient monitoring System allows hospital staff to check on 20 patiants at once.
- Diabetes controversy Experts dispute national study's adverse phenformin findings.

Polio's Incidence Brain Aneurysms Are Closed Now at Minimum With Injected Iron Particles

BETHESIM, Mo.-Injected iron particles, held in place with magnets, ean successfully close hrain aneurysms, according to a Virginia scientist working on a project funded by the National Institutes of

Five years' experience with a novel approach to the problem of cerebral aneurysms has been reported by Dr. John F. Alksne, at the Medical College of Vir-

The approach entails use of a tuheshaped magnetic probe through which a needle for injecting powdered iron into the aneurysm is passed. The probe, which is put through a burr hole in the skull and moved into a position abutting the aneurysni, holds the iron particles in place for three to five days while a clot forms around them. Eventually, Dr. Alksne said, the clot and ancurysm are replaced with

Experience varied depending on condition of the patients and location of the nneurysni. But in one group of 15 patients ritation of cerebral blood vessels, and ede-

who were conscious and without major neurologic deficit at the time of surgery, and whose aneurysms were on the anterior communicating artery, results were considered "very encouraging." Ten of the 15 returned to work.

Results for 12 patients whose aneurysms were on the internal carotid artery were not so promising: only four of the eight survivors have returned to work, the others being disabled by emboli caused by escaping iron. The poorer results were attributed to larger size (greater than I cm.) of the aneurysms ond larger necks, which allowed portions of the developing thromhus to wash out into the circulation.

Good Results Called Noteworthy

Dr. Alksne said, however, that the good results with aneurysms of the anteriorcerehral-onterior-communicating region are ennsidered noteworthy hecause these lesions carry such a high operative morhidity and mortality when treated conventionally. The stereotactic probe technique, Dr. Alksne noted avoids the vasospasm, ir-



magnets, have been successfully used to close brain ancurysms, says Dr. Alksne (above, with electromagnet). A cloi forms oround particles; eventually sear tissue replaces the ancurysm and clot. Research is supported by a grant from the NIH.

ma that often follow ennventional surgery.

Dr. Alksne and his associates feel that they can reduce mortality and morbidity through several improvements of the technique, including better x-ray monitoring. which will allow the iron injection to he stopped before any thrombus extends into the feeding artery, and hetter design of the mognetic pruhe to reduce the possibility of



NEWS INDEX

Medicine (1,3,4,6,7,20) Five naw tests reported for the diagno-

American Hospital Association said to

Ob/Gyn (2.19) Patient has vonceived and brought pregmancy to full term under dialysia 2

Pedlatrics (1,2,17,27)

CLINICAL NEWS NOTE: "If neck injury is strongly suspected but cannot be immediately diagnosed by standard techniques, the patient should be protected by hed rest, traction, a collar...." (Dr. J. William Fielding; see page 29.)

Diagnosis (1,27)

A full prologic diagnosis is urged for the presence of abdominal masses in children27

Epidemiology

Incidence of poliomyelltis is declining throughout the world

Allergology

Research

Aging is called an active process that

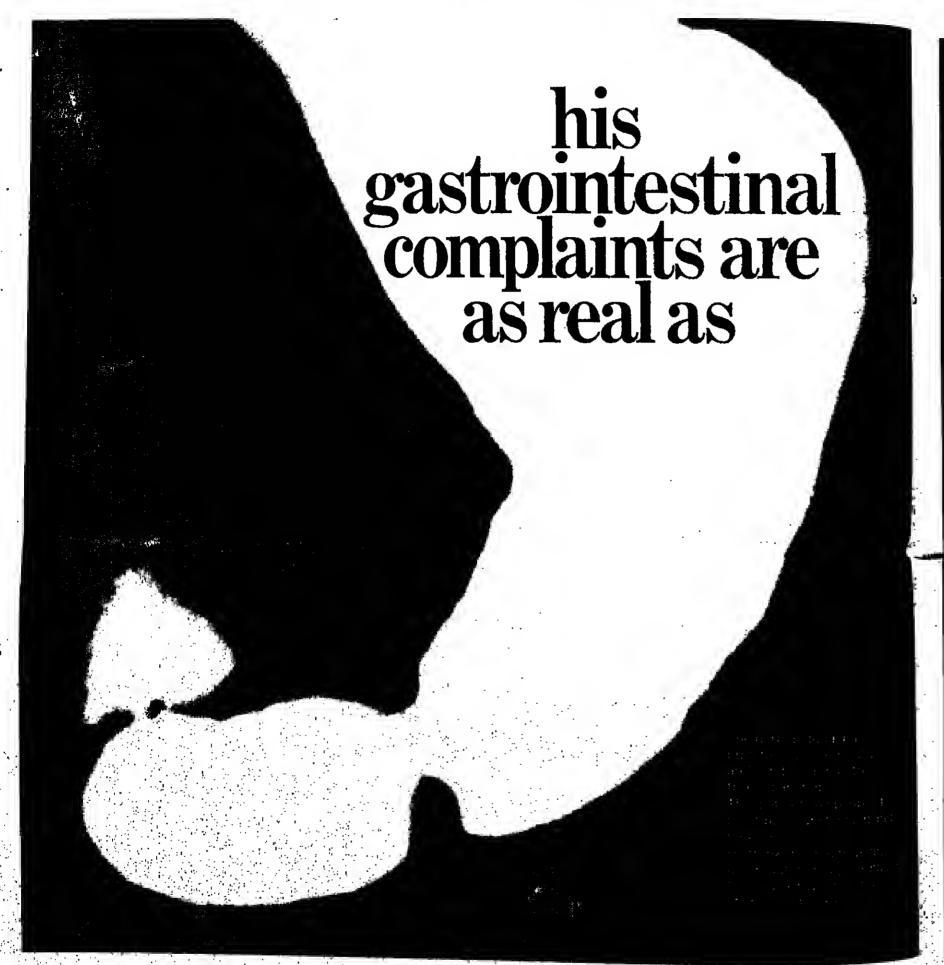
Disogreement on standards may celipse

Surgery (1,3,10,22,27) More careful selection of patients urged for breakt cancer treatment 1

About 15 per cent of Americans 12 to Disodium cromoplycale may be beneding injected from particles are used to close 17 hove smoked marifulana. 1 ficial in the lifeatment of asthma 6 threin aneutysins 3

Anxiety—frequent cause of gastrointestinal complaints or concomitant of gastrointestinal symptoms. Gastrointestinal complaints may be signals of functional gastrointestinal disorder or organic gastrointestinal disease. In either case, severe anxiety frequently plays a prominent role in causing functional complaints or in complicating organic disease. Whenever excessive anxiety is a significant component of the clinical profile, adjunctive use of Librium® (chlordiazepoxide HCI) may be of value.

Librium (chlordiazepoxide HCl) is used concomitantly with certain specific types of other classes of drugs, such as anticholinergics, antacids and mucosal coating agents, whenever excessive anxiety contributes to gastrointestinal complaints or symptoms.



Before prescribing, please consult complete product information, a summary of which follows:

indications; indicated when enxiety, tension and apprehension ere significent components of the clinical profile.

Contraindications: Patients with known hypersensitivity to the drug.

Warnings: Ceution patients about possible combined effects with alcohol and other CNS depressants. As with all CNS-acting drugs, caution petiants egainst hazardous occupations

requiring complete mental alertness (e.g., operating mechinery, driving). Though physical and psychological dependence have rerely been reported on recommended doses, use caution in administering to eddiction-prone individuals or those who might increase dosage; withdrawel symptoms (including convulsions), following discontinuetion of the drug and similar to those seen with barbiturates, have been reported. Use of eny drug in pregnancy, lactation, or in women of childbeering ege requires that its potential benefits be weighed against

Its possible hazards.

Preceutions: In the elderly and debilitated, and in children over six, limit to smallest effective dosaga (initially 10 mg or less per day) to preclude ataxia or oversedation, increasing gradually as naeded and toleraled. Not recommended in children under six. Though generally not recommended, if combination therapy with other psychotropics seems indicated, carefully consider individual pharmacologic affects, particularly in use of potentiating drugs such as MAO inhibitors and phenothi-

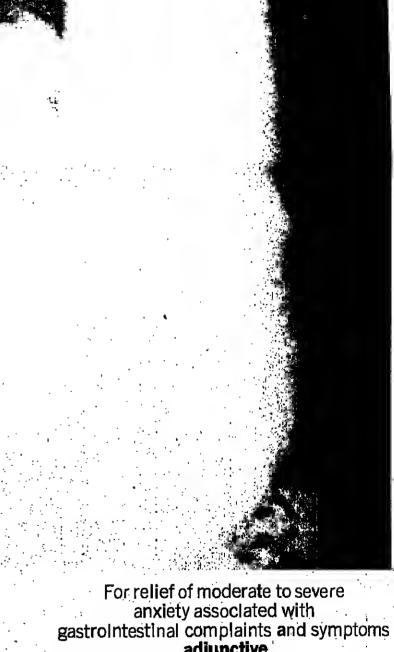
azines. Observe usual precaulions in presence of impaired renal or hepatic function. Paradoxical reactions (e.g., axcitemant, stimulation and acute rage) have been reported in psychiatric patients and hyperactive aggressive children. Employ usual precautions in treatment of anxiety stales with evidence of impending depression; suicidal tendencies may be present protective measuras necessary. Varieble effects on blood coagulation have been reported very rarely in patients receiving the drugand oral anticoagulants; causal relationship in

not been esteblished clinically.
Adverse Reactions: Drowsiness, ataxia and confusion may occur, especially in the elderly end debilitated. These are reversible in most instances by proper dosage adjustment, but ere also occasionally observed at the lower dosage renges, in a few instances syncope hes been reported. Also encountered ere isolated instances of skin eruptions, edema, minor menstrual irregulerities, nausea end constipation, extrepyramidal symptoms, increased end decreased libido—all infrequent and generally

controlled with dosage reduction; chenges in EEG patterns (low-voltage fast activity) may eppear during end after treatment; blood dyscraslee (including agranulocytosis), jeundice and hepatic dysfunction have been reported occesionally, meking periodic blood counts end liver function tests advise bie during protrected therapy. Supplied: Cepsules containing 5 mg, 10 mg or 25 mg chlordlezepoxide HCI.

ROCHE ON NO

Roche Leboratories Olvision of Hoffmann-La Roche inc. Nutley, N.J. 07110



Librium 10 mg
(chlordiazepoxide HCl)

1 or 2 capsules

t.i.d./q.i.d.



STOCKHOLM-Favorable experience with the use of disodium cromoglycate in the asthmo. Attacks are fewer and milder, he trentment of asthma was reported by sev- said, and use of aubstances with undesireral Scandinavian investigators at the 10th Nordic Congress in Aliergology here. The product is now registered in all Scandinavian countries except Sweden.

Dr. Knud Wilken-Jensen, of the chitdren's allergy clinic of Copenhagen's Rigshospital, described results in 56 patients under 15 years of age and 39 over i5. Improvement brought on by disodium eromogiyeate was noted in \$2 per cent of the patients-84 per cent of those under 15 and 70.5 per cent of those over.

Appraisal of effectiveness was based on daily well-being and dosage schedules maintained by the patients themselves, on questionnaires, and on clinical consulta-

Dr. Wilken-Jensen said that disodium

In the symptomatic treatment of bronchiai able side effects is reduced. Moreover, he said, the drug permits a more intensive hyposensitization, which, in the ionger run, can bring the desired freedom from

24 Asthmatic Children Treated With Disodium Cromogiycate

▶ Dr. Alf Backman, of the Pedintrie Clinic, Helsinki, reported treating 24 asthmutic children (18 hoys and six girls). averaging 10.5 years of age, with disodium

Most important criteria were severe intrinsic asthma in which treatment with standard drugs had proved unsatisfactory. Half the patients were treated for about six

eronioglycate is an especially valuable aid months. Only six of the patients received the substance continually for longer than

> Work capacity determination, spiromctry, self-recording of symptoms, and changes in height and weight during the treatment period all indiented a clear change for the better in the patients' conditions, Dr. Backman reported. No toxic side effects were noted.

He said the disodium cromoglycute therapy should be used mainly for patients with severe extrinsic asthma in which no results have been obtained with normal hyposensitization. Temporary use of the dring is indicated, too, he said, in cases in which hyposensitization can not be carried out because of an imminent pollen season. Another indication is asthma triggered by

physical exertion. "in patients with so-called infectious asthma type, where no other extrinsic fac-

tor than infection cao be demonstrated the effect of disodium eromoglycate is the so pronounced," the physician con-

But since good results have been to ported among such patients, the prepar tion can well he tried even here when only substances have fuiled to help, he said

38 Children Treated Nasally For Birch-Poilen Ailergy

From Kurolinska Hospital

Results of a double-blind investigation on a group of 38 children with verified hirelt-putten allergy to determine the effect of masal application of disodium cross glyente in allergie rhinoconjunctivitis were reported by Dr. Ejvor Oherger, who is with the prediatric clinic of Karolina Hospital here.

She noted a significant decrease in med symptoms during the peak pollen period among the group treated with disedium cromoglycule but nn effect on eye symp

Broader Representation Is Suggested For Hospital Group's Trustee Board

study for the American Hospital Association to produce its national health care istrators. proposal warned the organization it has un important weakness, which substantially reduces its political clout."

The chink in A.H.A. influence, Earl Perioff told the annual convention here, is that "by and large it speaks only for hospital administrators...not for physicians

Mr. Perloff, chairman of the board of the Albert Einstein Medical Center in Philadelphia, suggested a remedy: add six practicing physicians and six hospital trustees to the A.H.A. board of trustees. He also thinks a similar addition should be made to the A.H.A. House of Delegates, the regional advisory boards, the great affinity for the A.H.A.," Mr. Perloff councils, and the state associations

far greater force for change if it did repre-Chicago-The man who led a year-long sent these two groups," physicians and hospital trustees as well as hospital admin-

> Mr. Perloff was chairman of the study committee that produced the blueprint for the A.H.A. "Ameriplan" scheduled to be introduced in Congress later this year as yet another entry in the legislative race to restructure the nation's health care deliv-

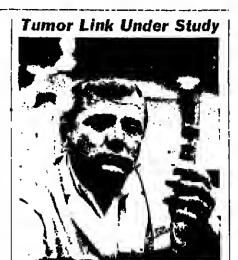
He implied, however, that the organization's leverage to get its health care proposals considered on an equal footing with, for instance, those of the Nixon Administration, the American Medical Association, or the Kennedy-lahor forces might be reduced because of the A.H.A. narrowness of representation. "I feel a said, "and I am most anxious to see it re-"I believe that the A.H.A. would be a main an effective vehicle for the improve-

expansion of the A.H.A. board to accommodate physicians and hospital trustees. With six of each added, the board would total 36 members. An A.H.A. spokesman said none of the 24 members are practicing physicians or hospital trustees.

Only two are M.D.s-Dr. Martin R. Steinberg, executive head of Mount Sinai Hospital in New York, and Lieut. Gen. Alonzo A. Tawner, of the U.S. Air Force.

The A.H.A. president-elect, Stephen M. Morris, president of Good Samaritan Hospital in Phoenix, Ariz., told a news conference that the organization "has made efforts-it's a trend and you'll see more of it-to bring more physicians into the hoards and councils."

Another A.H.A. official was not sanguine about the chances of getting hospitul trustees into A.H.A. work. "Earl Perloff is not typical," the official said, "Minst hospital trustees are businessmen with hospital interests that are local, not national."



Relationship endametrium tumors is under scrutiny ity Pentti Siiteri, Ph.D., at University of Texas Southwestern Micilical School at Datins. Above, Dr. Silleri examines test tube of radioactive estrodioi. Study is supported by American Cancer Society.

We'd like you to form an opinion of the clinical and bacteriological experience with 377 patients in the treatment of staph and strep soft-tissue infections* with clindamycin HC1

In our opinion, this clinical and bacteriological work points to Cleocin HCl (clindamycin HCl hydrate, Upjohn) as a drug with potential value in the treatment of staph and strep soft-tissue infections. If you share this opinion, we'd

appreciate knowing about it. And one good way of letting us know would be to ask your Upjohn representative for samples and/or additional information. Cleocin should be prescribed with caution in atopic individuals.



Cleocin 150 mg. capsules clindamycin HCl hydrate, Upjohn

*Due to susceptible organisms.

It takes a few minutes to review.

Clinical and bacteriologic responses of patients with skin and soft tissue infections trested by 55 investigators with Cloocia HC1 (clindamycin HC1 hydrate, Upjohn)*

Infection	No. of Patients	Pathogens	Clinical Response		Bacteriologic Response	
			Excel. or Good (%)	Poor (%)	No. of Pts. Evaluatable	Organieme Eradicated (%)
Abscesses, wounde, & furuncles	156	S. <u>aureus</u> - 107 staph, other- 12 <u>β</u> -strep- 10	151 (97%)	5 (3%)	129	126 (98%)
Gallulitia	38	S. aureua - 21 etaph, other- 1 β-etrep- 8	38 (100%)		30	30 (100%)
Superficial ekin & soft tissuemostly impetigo	183	8. sureus - 41 Mixed β - etrep & staph - 51 staph, other- 1 β - strep (74 Group A) - 81	178 (97%)	5 (3%)	174	170 (98%)
Total	377		367 (97%)	10 (3%)	333	326 (98%)

*Data on file, Medical Recessor Files, The Upjohn Company

Note: With B-hemolytic streptococcal infections, treatment should continue for at least 10 days to diminish the likelihood of subsequent rheumatic fever or glomerulonephritis.

Same strains of staphylococcus resistant to clindamycin HCl have been recovered. Therefore, as with all antiblotics, in vitro auscaptibility studies should be performed.

97-100% of patients with susceptible skin and soft-tissue infections (staph and strep) had excellent to good response with clindamycin HCl.

Cleacin | clindamycin, Upjahn| is a new semisynthetic antibiatic produced from the parent compound lincomycla and provides more in vitro petency, better and absorption and lewer gastrointestinal side effects than the parent campound. Cleach HCt (clinde mycin HCl hydrate) is indicated in inlactions

of the upper and lower respiratory tract, skin and sall lissue, and, adjunctively, deniel infections caused by grom-positive and, adjunctively, deniel infections caused by organisms which are susceptible to its action, per lecocci, pneumoracci and riaphylacocci. As with all antibiotics, in vitro susceptibility studies should be performed.

CONTRAINOICATIONS, Pollents previously lound to be hyporsensitive to this compound or to lincomycln,

WARITINGS: Salety for use in pregnancy not established. Not indicated in the newborn (inlants below 30 days of age). PRECAUTIONS, Prescribe with coution in elepic individuels. Perform periodic liver function tests and blood counts during prolonged therapy. The serum hall-life in patients with markedly reduced tenal function is approximately twice that in normal patients, framodialysis and pertioned dialysis do not allectively.

susceptible arganisms—particularly yeasts—accur, take appropri are clinically indicated measures.

AOVERSE REACTIONS: Generally well talerated in clinical efficacy studies. Side effects reported in 8.2% at 1,416 patients. Of the total, 6.9% reported gastraintestinal side effects and 1.3% reported ather side effects. Otorrhea at laase staals were 1.3% tepotted other state effects. Corrined at laces statis were reported in 3%. Gostrointestinair Symptoms included abdominal point, nausea, vomiting end diorines or loose stock. In a lew instances, diorineo lasted for several days, one case of blacdy stocks was reported. Hematopoietic, Translent neutropenia (leukopenia) and easinaphilia have been reported; relationship to therapy is unknown. No irreversible bematalogic laxicity has been reported. Skin and Mucous Hembranes. Skin rosh and unicaria have been reparted intrequently. Hypersen-shivity Reactions: A lew cases of hypersensitivity reaction have been reparted. If hypersensitivity accurs, discontinue drug and have available the usual agents (epinephrine, corticosteroids, antihistomines) for emergency treatment, tiver. Although na direct rotationship of Cleach HCI Iclindamycin HCI lydrato) to liver dysfunction has been noted and significance of such change is unknown; trensient obnormalities in liver function less fele-

Clindomycin HCl hydrote equivalent to clindomycin boso sulliciency, determine serum levels at clindomycin periodically ond decrease the dase oppropriately. Should overgrowth of non-

OOSAGE AND ADMINISTRATION, Adults: Mild to modorately lavere thiections—150 to 300 mg, avery 6 houss, Severa infections-300 to 450 mg, every 6 hours.

Children: Mild to moderately severe infections—B to 16 mg./ kg./day (4 to 9 mg./tb./day) divided into three or four equal doses. Severe infections—16 to 20 mg./kg./day |8 to 10 mg./ lb./day) divided into three or four equal doses.

Note: With Bhemolytic streptococcal Infections, treatment should continue to at least 10 days to diminish the likelihood of subsequant the umatic lever or glamerula nephritis.

SUPPLED: 150 mg. Copsules-Bottles of 16's and 100's, 75 mg. Copsules-Battles of 16's and 100's, Sensitivity Disks-2 μg. Sensitivity Disks-2 μg. Sensitivity sitivity Powder-Vials.

for additional product information, see your Upjain represents live or consult package Insert. MED 8-4-5 (LNU-3) JA71-1446

The Upjahn Compony, Kalamazoo, Michigan 49001 1971 The Upjahn Company,













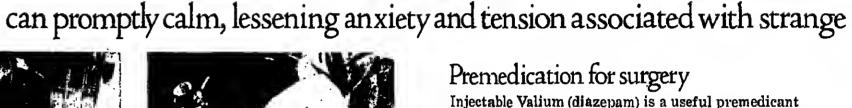


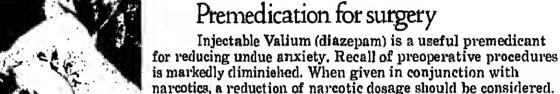
One to two hours before surgery, 10 mg Injectable Valium (diazepam) I.M.









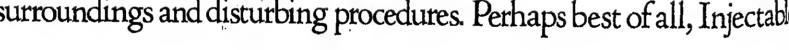


Valium (diazepam) markedly diminishes recall of the preoperative procedure.

is markedly diminished. When given in conjunction with narcotics, a reduction of narcotic dosage should be considered. (See summary of prescribing information.) Injectable Valium should not be mixed with other drugs, solutions, or fluids. The new 10-mg disposable syringe can help you observe this precaution at the same time it helps assure aseptic handling. Injectable Valium seldom significantly alters vital signs. Nevertheless, there have been infrequent reports of hypotension and rare reports of apnea and cardiac arrest, usually following I. V. administration. Resuscitative facilities should be available.

To relieve excessive preoperative auxiety, remember Injectable Valium (5 mg/ml) 2-ınl ampul, 10-ml vial, 2-ml disposable syringe.

surroundings and disturbing procedures. Perhaps best of all, Injectable



Before preacribing, please coneult complete product information, a aummary of which followe:

Indications: Tension and anxiety etates; complaints which are concomitants of emotional factors; psychoneurotic states manifested by tension, anxiety, apprehension, fatigue, depreseivs symptoms or agitation; symptomatic relief of acute agitation, tremor, delirium tremene and hallucinosis due to acute alcohol withdrawal; adjunctively in : rellef of skeletal muscle spasm dus to reflex spasm to local pathology; epacticity caused by upper motor neuron disordere; athetoels; etiff-man syndrome; tetanus; status epllepticus and severe recurrent ecizures; anxiety

prior to gastroscopy, esophagoscopy, and eurgical procedures; cardiovereion (I.V.).

Contraindicated: In infants; in patients with known hypereensitlylty to the drug; in acute narrow angle glaucoma; may be used in patients with open angle glaucoma receiving approprlate therapy.

Warnings: Inject I.V. elowly, directly into vein; take at least one minute for each 5 mg (1 ml) given. Do not mix or dilute with other colutions or druge. Do not add to I.V. fluide. Rare reports of apnea or cardiac arrest noted, usually following I.V. administration, especially in elderly or very ill and those with limited pulmonary reserve; duration is brief; reeuscitative facilities ehould be

available. Not recommended es sole treatment for psychotic or aeverely depressed putients. Should not be admin latered to patiente in ehock, coma, acute. alcoholic intoxication with depression of vital signs. Cantion against hazardous occupations requiring complete mental alertness. Advise against simultaneous ingestion of alcohol and other CNS depressants. Withdrawal symptoms (eimilar to those with barbiturates and alcohol) have occurred following abrupt: discontinuance (convulsions, tremor, abdominal and muscle cramps, vomiting and eweating), Keep addiction-prone Individuals under careful surveillance because of their predisposition to habiten ation and dependence. In pregnancy,

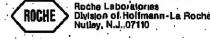
lactation or women of childbearing age, weigh potential benefit against possible

hazard to mother and child. Precautions: If combined with other psychotropics or anticonvulsants, carefully consider individual pharmacologic effects-particularly with known compounde which may potentiate action of Valium, such as phenothiazines, narcotics, barbiturates, MAO inhibitors and other antidepressants. Usual precautions indicated in patients severely depressed, or with latent depression, or with suicidal tendenciee. Observe usual precautions in impaired renal or hapatic function. Not recommended for bronchoscopy, laryngoscopy, obstetrical use, or in diagnostic procedures other than

gastroscopy and esophagoscopy. Laryngospasm and increased cough reflex are possible during gastroscopy; nacessary countermeasures should ba available. Hypotensloa or muscular weakness possible, particularly when used with narcotics, barbiturates or alcohol. Since effect with narcotics may be additive, appropriate reduction in narcotic dosage is possible. Use lower doses (2 to 5 mg) for elderly and debilitated. Safety and efficacy in chlidren under 12 not established.

Side Effecte: Drowsiness, fatigue, ataxia, confusion, depression, constipation, dysarthria, diplopla, headache, hypoactivity, hiccups, hypotension, incontinence, jaundlce, nausea, changes

in libldo, changes in salivation, phlebitis at injection site, urinary retention, skin rash, syncope, slurred speech, urticaria, tremor, vertigo, blurred vision. Paradoxicni reactions such as acute hyperexcited states, anxlety, haliucinations, incrensed muscle spastlcity, insomnia, rage, sleep disturbances and stimulation have been reported; should these occur, use of the drug ehould be discontinued. Isolated reports of neutropenia, jaundice; periodic blood counts and liver function tests advisable during long-term thernpy. Minor EEG changes, usually low-voltage fast activity, of no known eignificance.



Injectable Valium (diazepam)

benefits every step of the way.

建设建设设施的设施。

ing loss becomes manifest.

istrotion of these drugs.

suitable alternative exists.

must be closely watched during the admin-

The use of these potentially ototoxic

antibiotics should he reserved for only

critical medical situations where the on-

Does any Indication currently exist for the

carly operation of fenestration for oto-

The operation of fenestration of the hori-

zontal semicircular canal is very rarely

performed at present for the surgleal treat-

which is currently used for the treatment

of otoscicrosis. The results of stancdec-

What's new and important in otolaryngology?

CLINICAL CHANGES and research advances continue to reshape the breadth and incrosse the vitality of otolaryngology. The stapes mobilization praecdures, reintraduced in the mid 1950s, led the way with n very high success rate for the development of the stapedectomy operation for the trentment of otosclerotic deafness. During the past 15 years, great interest has elso been generated in the reconstruction of the chronically diseased middle enr by various grafting and ossicular re-

piecement methods to help hearing Most recently, encouraging results have toxic have been developed and have been been obtained by using homograft re-



DR. GOLOMAN

found to be useful in the treatment of the affect the end organs of both the auditory entire transducing mechanism of the and vestibular nerves. Viomycin, neomycin, and kanamycin can be destructive to middle ear-i.e., rethe hair cells in the organ of Corti and placement of the cause primarily deafness. Viontycin cnn tympanic memproduce vestibulor as well as auditory brane with ita atdamage. Such antibiotics as streptomycin teched maileus, inand gentamycin tend to initially affect the cus, end stapea. vestibular end organs. These changes may cause vertigo and imbalance before a hear-

The otolaryngoiogist has made very significant advences in the treatment of

cercinomn of the larynx. Conservation procedurea, especially the supragiottic laryngectomy, have made it possible to preserve laryngeal function, and preoperative rodiotherapy in a combined plan has improved the survival rate of patients with advanced concer.

Newer equipment as provided by the operating microscope for aural and laryngeal surgery ond by fiberoptic direct endoscopic lighting of the larynx, tracheobronchial tree, and csophagus have creoted facilities which permit much more accurete diagnosis and auperior surgical tech-

Perhaps the most exciting new area in otolaryngological research is the measurement of the central projections of the acoustic nerve. In several centers animal research is being conducted for the mapping and description of acousticocortical responses. The implication of this research is the possibility that the diseased middle and inner car may one day he hypassed by the use of a cortical hearing nid.

Plcase comment on the problem of auditory nerve deafness secondary to antibi-

A number of entiblotics that are oto-

The Consultant

In obliterative otosclerosis the outline of the footplate in the oval window can be lost by excessive growth of otosclerotic hone. la such instances indiention for the fenestration operation still exists if removal of the otoselerotic foot-plate area becomes too difficult technically or unsafe for the preservation of hearing, if a patient has had two recurrences of oval window obliteration following stapedectomy and remains a suitable audiologic candidate for surgery, then most tikely nothing short of the fenestration operation will offer him the opportunity for surgical correction of his conductive hearing loss,

no exposure to the fenestration procedure.

Do you believe that sernes utilis media is at times lotrogenic, resulting from too enrly eessotlan of antiblatic therapy of placement of the seriously ill patient. These antihiotics may untditle-car and upper-respiratory infec-

> The term "iatrogenie" can be misleading in discussing the etiology of this disease. There have undoubtedly been instances of serous otitis media, both tho clear and gluc types, after what may he considered inadequate antibiotic therapy for both acute upper-respiratory infections and acute otilis medin, in instances of clear effusions, other factors, such as All patients receiving these drugs should adenoidal disease, custachean tube obhave a preliminary base-line andiogram struction, allergic disorders, may be conand caloric test. Audiograms and caloric tributing, However, middle-car effusions tests at weekly intervals many reveal if have also occurred in spite of very adeadverse reactions are developing. Unforquate antibiotic therapy. This is particutunntely, these are not conclusive tests, larly true in the "gine ear," where the for deafness may not become evident until middle car is filled with thick muchid months after cessation of the antihiotic. -material. One may he dealing here with Also, since lowered renal function will inan unresolved infections offits media rather crease the blood levels of these antihiotics than a true noninfectious ntltis media, In and thus side effects, renal function tests persistent effusions, myringotomy with aspiration or with application and insertion of drainage tubes is the most effective way of controlling the process. The need for adenoidectomy must always he considered. Adequate antibiotic therapy for middlecountered illness mandates the adminisear infections implies at least seven to 10 tration of the specific antibiotic and no days' administration of the drug. Many "glue ears" could he avoided if acute middle-car infections with bulging typinanic membrane and fever were treated by myringotomy and antibiotics after culturing the middle-car pus and determining the appropriate antibiotics.

> > What ore the Indications for raillotherapy and for surgery in tumors of the inrynx?

ment of otosclerosis. Stepedectomy, in ono form or other, is the surgical technique The indications for treatment of malignant nooplasms of the lurynx is n enmplex and controversial subject and can be distomy have been so excellent that an entire cussed only very briefly. Essentially, rageneration of otologists have been trained diotherapy and surgery separately are efin the past decede and a half with little or feetive modalities for trenting cancer of

Next Tribune Consultani



DR. J. S. GRAYES STEIN, Profess and Chairman Department el Aoesthesiolog Case Western Re serve University School of Med cine, Cleveland

... Canesany, October 6, 15

...and some questions he will answer:

· Should simple tests of pulmoners function be routine postoperalively? • Do you use atropine or other anicholinergie drugs routinely to prevent. cardiac arrest or bradycardia?

the larynx, and indications vary according to location and extent.

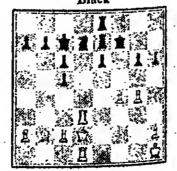
In lesions limited to the true vocal cont. with good motility (T1), radiotherapy and surgery are equally effective and accordingly, radiotherapy is the method of choice if the patient can be properly & lowed. In instances of small tumors cons finct to one anatomical region within the larynx (T2), there are two schools of pretice. One prefers partial laryngeal pacodures, the other radiotherapy with reance on salvaging failures with subseque surgery. These approaches, in my opinio, will produce similar care rates.

In tumors extending beyond one as tomical region but confined to the large (Ta) and in those extending beyond for larynx (T4), surgery is always indicated However, there are laryngologists who prefer preoperative radiation as pands imilled plan of therapy, and I advoce this approach. The amount of precentive radiation may be low-dosage (1500-3.000 r) or high-drsage (-t,000-5,500 r). I prefer the latter.

Cervical mode metastasis is a sines complication of concer of the languand should be treated by radical neck distethon. The cervicul nucle areas are included in the liebly of radiation when prespect tive x-ray therapy is employed, even when under are not pulpated. Thus, it is my opinion at present that Ta lesions without clinical nodal metastash should have # gery limited to the larynx and the me ureas he followed. In T. leslons, either with (obligatory) or without (elective) cervical ande metastasis, radical neck & section should be performed in conjunc tion with the laryngesi surgery.

of dingnostic and therapentic studies # petients with diseases of abnormal calcius and skeletal metabolism has been made is the Massachusetts General Hospital by the John A. Hartford Foundation, Inc. De: John T. Potts, chief of the M.G.H. ende crine unit, will direct the projects.

Chess Problem



Two Czech masters, Trapl and Lane, reached this position in 2 game last year. Black now tried lo divert White's attention away from the Quech's side with 26 .c. P-KN4. How can Black win? See page: 22. . .

caretuily litrated.
Pay apocial attention to electrotyle balance of pattents with severe hepatio insulficiancy. In patients with cirrhosts and ascites, watch for symptoms of impending hapatic come (contuston, drowsiness, fremor) and test for increased affects ammonia concentration, sodium and potessium excretion. Thiexides may decrease glucose tolerance; use cautiously in disbatics. Hyperunicamis may occur but la generally reversed by a unicosuric agent.

Thiaxides may decrease arterial responsiveness to norapinaphrine and increase responsiveness to norapinaphrine and increase responsiveness to under anesthasic have been observed. It emergency surgery is indicated, preanesthatic and anashelic agente should be administered in reduced dosage.

The possibility of sensitivity reactions should be considered in pattente with a history of allergy or prorichals asthms.

Use in Pregnancy

bronchial ashme.
Use in Pregnency
Guanethidine: The salety of guanethidine for use
in pregnency has not been established; thereiore, filladrue should be used in pregnant pallents
only when, in the tudgment of the physicien, its
use is decimed essential to the welfere of the
patient.

Hydrechierothiszids: This zides should be used
with caution in pregnant or isclaling patients

Peptic ulcars or other charity and the saggravated by a relative increase in parasympethetic tone. Periodic blood counte and liver function tests are advised during prolonged therapy. Hydrochtorothiszide: Perform serum potessium, 8UN, uric scid, and blood sugar lesia prior to and at appropriate intervals during therapy.

aUN, unic sold, and blood sugar lesi a prior to and at appropriate intervals during therapy. Watch appropriate intervals during therapy. Watch aptente for clinical signs of fluid or electrolyte imbalance (hyponairemie, hypochloremic cikidels, hypokalsmia). Warning algree dryneas of mouth, thirst, weekness, lethargy, drowalness, or mouth, thirst, weekness, lethargy, drowalness, restlessness, muscle paine or cramps, muscular latigue, hypotension, oliguria, tachycardia, Gi disturbance. Serum and urine slectrolyte determinations are particularly importent whith pallent is vomiting excessively; receiving parenteral fluida, steroida, or ACTH; during brisk diureas; in pressance of severe cirrhosta.
Interierence with adequate oral intake of slactrolytes will also contribute to hypokalemia. Oglitalia may exaggerate metabolic affects of hypokalemia, Oglitalia may exaggerate metabolic affects of hypokalemia. Oglitalia intoxication may be produced by formerly toterated doses of digitalia. Hypokalemia may be experted deviced by formerly toterated doses of digitalia intoxication may be produced at many be experted with supplemental potessium is indicated when serum potessium is at metalicated when serum potessium is at metalicated when serum potessium is at metalicated when serum potessium is an annonium chlorice (except in those with hepatic or renal disease) and lergely prevented by a nongrigid salt inteks. Il distary salt is unduly residenatous petients with congesilve heart sillure or renal disease, a tow self syndrome may complicate that powers. It will be proceed the produced in the patients of renal disease, a tow self syndrome may complicate that powers.

CIBA

all in the same boat many hypertensives do better on hydrochlorothiazide Esimil may get things moving for all sorts of patients with moderate to severe hypertension. Often controls blood pressure when other antihypertensives fail. Usually keeps it controlled, too. The key is guanethidine—perhaps the most effective antihypertensive available. And with Esimil, dosages of both components—guanethidine and hydrochlorothiazide-are lower than with either used alone. So adverse reactions are usually minimized. Esimil. A smoother course for all sorts of

SENOKOT Tablets/Granules—a tion of the Auerbech's plexus, standerdized vegeteble derivative SENOKOT Teblete/Grahulee rep-

petion need not resort to Inert bulks, leaky emollients, dehydrating salines, or contect irritente. A senelble method le to prescribe:

with a virtually colon-specific laxpredictable. Acting not through irritation of gastrointestinel mucosa, but lhrough gentle etimula-

resent e physiologic approach to ative action that is both gentle end the elleviation of constipction. The Purdue Prederick Company Yonkers, N.Y. 1070)



Metabolism Study Backet BOSTON-A \$295,787 grant for a program guanathidins monosulfale 10 mg kydrochiorothiazida 28 mg

Hypertanelon (other than labile forms) which can-not be adequately controlled with simpler agents, moderate to eavers hypertenelon; susialned hyper-tansion; elmost ell lorms of lixed and progressive hypertensive disease; when sida effects of other antihypertensives prevent affective treatment.

Ouaneihidine: Proven or suspected pheochromo cytome; hypersensitivity to guenethidine. Do not use with MAO (nhibitore.

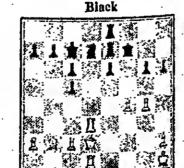
use with MAO Inhibitore.
Hydrochlerichtexides Anuries discontinue drug it renal shuldown occurs for any reason, Progressive hapalic disease mey accalerate development of hepetic come. Do not give to patients with known allergy to thiszides or other sullonamidederived drugs.

clinical problems. Physiciens should be tamiller with both drugs and their combination before prescribing, and pelients should be warned not to deviate from instructions.

Guenethidins: Warn patients about the potential hazarde of orthostatic hypotension, which can occur trequently. To prevent lainling, patients should at or lie down with onset of dizziness or weekness, which may be perficularly bothersome during initial dosage adjustment and with postural changes. Postural hypotension is most weather, siconol, or exercise, warn patients to evoid sudden or prolonged standing or exercise wittle taking guenethidine.

Concurrent use with reuwoitla derivatives may cause excessive postural hypotension, bradycardle, and mental depression. If posetble, withdraw therepy 2 weeks prior to surgery to avoid possible vascular colleges and to reduce hazard of cardiec errest during enesthable and enesthatic agents obtained and enesthatic agents obtained and enesthatic agents obtained and responsibility in exircine cauliously in reduced dosage with oxygen, etropine, and vasoprassors ready for immediate use, olive vasoprasors with exircine caulion because patients on guanethidine may have a greeter propensity for cardiac eritythmias.

Pabrile lifess may reduce dosage requirements, out to calactois mine deplation and increased: responsiveness to norepinephrine, special dare is required when treating patients with a hietory of



While

bronchiel aginma, since the condition may be

Immediately il abdominal pain, dialantion, nause: vemiling, or Ol bleading occura.

Lowering of blood pressure in hypertenaive patiants may sometimes result in nitrogen, retention in turn, ranal blood flow is reduced, particularly in those with impelred renal function. It progressive renal inaufficiency is observed, discontinuance of drug may be dealrable, in patianta with renal disease, this zides may practipitate azolemia.

Comutative alfacta may develop in incas with may

hypertensives.

uris. Cantral narvoue system—cizzinese, verego-perestris sias, headache, xamthopsia. Osrmatologic hypersensitivity—purpura, photosensitivity, rash, uritearia, necrotizing anglitis. Hematologic—eu-kopenia, thrombocytopenia, agranulocytosia, apisalic ansmis. Cardiovascular—orthostatic hy-potension mey occur and may be potentisled by alcohol, barbiturates, or narcotics. Miscelleneous —music epasm, weakness, reallessness. Whan-ser adverse reactions are moderate or severe, reduce dossgs or withdraw therapy.

reduce dossgs or windraw merepy.

Desege
Opilmal dosage must be determined for each individual, Note: 10 mg guanethidine monosultate present in Esimil is equivalent to 6.4 mg guanethidine suitate, USP (Ismelin®).

How Supplied
Tablets (white, scored), each containing 10 mg guanethidine monosuitate and 25 mg hydrochlorothis zide; bottles of 100.

Gefore elerting therepy, consult complete product literature.

DIBA Pharmaceullosi Company

When analgesia is needed for a long period

- Comparable to codelne in analgesic efficacy: one 50 mg. Talwin Tablet appears equivalent in analgesic effect to 60 mg. (1 gr.) of codelne.
- Prolonged analgesia between doses: relieves pain usually for 3 hours or longer. Onset of significant enalgesia usually occurs within 15 to 30 minutes.
- Tolerance to the analgesic effect of Talwin Tablets has not been observed end no significent changes in clinical laboratory parameters attributable to the drug heve been reported.
- <u>Infrequently ceuses decrease in blood pressure or tachycerdia; rarely causes respiratory depression or urinary retention; seldom causes dierrhea or constitution.</u>
- Generally well tolerated by most patients: if dizzlness, lightheadedness, neusea or vomiting are encountered, these effects tend to be self-limiting and to decrease after the first few doses. (See Product Information following for full discussion of all adverse reactions and other prescribing information.)
- Not subject to narcotic controls; convenient to prescribe—day or night.

time for lalwing for lawing pentazocine (su hydrochloride) 50 mg. Tablets





moderate to severe pain

Atime for pentazocine 50 mg. Tablets

Contraindfcetione: Telwin ehould not be edministered to petients who ere hypersenallive to it.

Werninge: Heed injury end increased intracranie! Preseure. The respirelary depressent effects of Telwin end its potential for eleveting cerebrospinei fluid pressure mey be merkedly exeggereted in the presence of heed injury, other Intrecreniei leelone, or e preexleting increase in intrecrenial pressure. Furthermore, Telwin cen produce effects which mey obecure the clinical course of pellenta with head injuries. In euch petients. Telwin must be used with extreme ceution end only if its use le deemed essential.

Usage in Pregnency. Sefe use of Telwin during pregnancy (other then lebor) hee not been esteblished. Animel reproduction eludlee heve not demonstrated teretogenic or embryotoxic effects. However, Telwin should be edmin-

Istered to pregnent petients (other then lebor) only when, in the judg-ment of the physicien, the potential benefits outwelgh the possible hezerde. Petienie receiving Telwin during lebor heve experienced no edveree effects other then those that occur with commonly used enelgeeice. Telwin should be used with ceution in women delivering premature infente.

Drug Dependence. There heve been instences of psychological and physicel dependence on parenterel Telwin in petiente with a history of drug ebuae end, rerely, in petiente without auch a history. Abrupi diecontinuence following the extended use of perenterel Telwin has reeulted in withdrewel symptoms. There have been a few reports of dependence end of withdrewel symptoms with orelly edministered Telwin. Petients with a history of drug dependence should be under

close eupervision while receiving Telwin crelly, in prescribing Talwin for chronic use, the physician ehould take preceutions to evold increeses in dose by the pellent end to prevent the use of the drug in enticipation of pain rether than for the relief of pain. Acute CNS Menileetetions. Petienle receiving therepeutic doses of Talwin have experienced, in rere instences, helluoinstions (usuelly vieuel), disorientetion, end confueion which have ojeered epontene ouely within a period of hours. The mechanism of this reaction is not known. Such petients should be very ofosely observed end vitel eigne checked. If the drug le reinetituted it should be done with ceution eince vs meniteetatione may recur.

Usege in Children. Beceuse clinical experience in children under 12 years of ege is limited, edminietretion of Telwin in this ege group is not recommended

Ambulgiory Petients. Since sedetion, dizzinese, end occesional auphoria have been noted, ambuletory pellents should be werned not to operate mechinery, drive cers, or unnecesserily expose themselves to hazarde.

Precautions: Certein Respiretory Conditions. Although respirelory depression has rerely been reported efter orel administration of Telwin, the drug should be edministered with ceution to petiente with reepiretory depression from any cause, severe bronchial eafhme end other obstructive respiratory condilione, or cyencels.

Impaired Renel or Hepatic Function. Decreeeed meteboliem of the drug by the liver in extensive liver disease may predispose to accentuation of side effects. Affhough laboratory tests have not indicated that Telwin causes or increases renal or hepatic impelment, the drug should be administered with coutlon to petfents with euch impairment,

Myocardial interotion. As with all drugs, Telwin should be used with ceution in pallants with myocardial interction who have nausee or vomiting.

Billery Surgery. Until further experience is geined with the effects of Telwin on the sphinciar of Oddl, the drug should be used with caution in pellenis ebout to undergo surgery of the billary troct.

Pollents Rocolving Narcotics. Telwin is o mild nercolle animgoniel. Some philonis proviously rocelving nercolice hove experiencod mild withdrowol symploms eller rocelving Tolwin.

CNS Ellects. Ceullon should be ueed when Talwin ie odmlnialered lo pellente prono lo selzures; selzuree heve occurred in n fow euch pationis in association with the use of Tolwin ollhough no causo ond efinct relationable hoe boen eslebilehod.

Adverse Reactione: Roactions roported efter oral edministration of Talwin includo gostrointostinal: neueee, vomiling; infrequently conelipation; end reroly abdominel distress, anorexie, diarrhea.

CNS ellecte: dizziness, lightheededness, sodellon, ouphorle, hoedeche; infrequently woeknees, dieturbod droome, insomnie, eyncope, visuel blurring end focusing difficulty, halfucinations (see Acule CNS Menifestetions under WARNINGS); end rerely Iremor, Irriisbilliy, excitement, tinnilus. Autonomic: swealing; infrequently flushing; end rerely chills. Allergio; infrequently resh; and rerely urlicerie. Cerdioveeouler: infrequently decreese in blood preseure, techycerdie. Other: rerely respiretory depression, urinery relention.

Dosege end Administration: Adulte, The usual initial edult dose is 1 tablet (50 mg.) every three or four hours. This may be increesed to 2 teblets (100 mg.) when needed. Totel delly dosage should not exoeed 600 mg.

When entlinflemmetory or enlipyretic effects ere deelred in eddillon to enelgasie, espirin can be administered concomilantly with Talwin. Children Under 12 Yeere of Age. Since clinical experience in children under 12 yeere of ege is limited, edministration of Telwin in fhis ege group is not recommended.

Duretion of Therepy. Petienis with chronic pein who have received Telwin orelly for prolonged periods heve not experienced wilhdrewel symploms even when edministration was abrupily discontinued (see WARNINGS). No tolerence to the enelgesto effect hee been observed. Leboretory teete of blood end urine end of liver end kidney function heve reveeled no eignificent ebnormelilies efter prolonged edministretion of Telwin.

Overdosage: Menifeetetione. Clinical experience with Telwin overdosege hee been ineufficient to define the eigne of this condition.

Treetment. Oxygen, Intrevenoue fluide, vesopressors, end other eupportive messures should be employed as indicated. Assisted or controlled ventiletion should also be considered. Although nelorphine end levellorphan are not effective entidotee for respiratory depression due to overdosage or unueuel eensitivity to Talwin, perenterel natoxone (Nercene, evelleble through Endo Leboratories) le a specific and eifeotive entegohiet. If neloxohe le nof avelleble, parenieral administretion of the eneleptic, methylphenidete (Rileline), mey be of value if reepiretory depression occurs. Telwin le not subject to nercotic controle.

How Supplied: Tablets, peach color, ecored. Each feblet conlains Talwin (brend of pentazocine) es hydrochloride equivalent to 50 mg. base. Bottlee of 100.

Winthrop Winthrop Laborefories, New York, N.Y. 10018

Wednesday, October 6, 1971

MEDICAL TRUMPER

Medical Tribune

The Only Independent Medical Newspaper in the U.S.

Medical News

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Physical Diagnosis Revisited

PHYSICAL OIAONOSIS, like motherhood, are of interest in that they restate what was sp well described by Dr. Thomas Watson breach more than in performance. Fledg- in his classic text, dated 1858, Principles ting physicians soon become weared from and Practice of Physic. "There is no sign their corly lessons in usc of the unoided senses with the atlure of intriguing diognostie gadgetry. Seasoned practitioners, too, often all but abundon physical diagnosis for convenient loboratory tests. It is refreshing therefore to see some of the newest of sophisticated procedures serve to validate the accuracy and usefulness of the oldest of diagnostic techniques-i.e., palpation of the heart's impulse.

As reported in the August issue of the Annols of Internal Medicine, Drs. Robert D. Conn and James S. Cole, of the University of Washington, Seattle, have correlated the hedside features of the cardiac apex-Impulse with fiberoptic apexcardingraphy and biplane anglographic deter-minations of left-ventricular volume and mass. They found that 88 per cent of pntients with a sustained holosystolic impulse had an increased teft-ventricular mass and that "the bedside characteristics of the apex impulse more accurately predicted left ventricular hypertrophy then did the electrocardiogram or the chest roentgeno-

The observations of Drs. Conn and Cole one's fingers.

of hypertrophy so sure as that afforded hy the heart's impulse. You feel, not a smart, quick and sudden knock, hut a steady, beaving, irrepressible swell, which is perfecily characteristic. You may always infer increased thickness of the walls of the organ, when you nicet with this regular henving motion, and the extent to which the whole heart is enlarged in such cases may he conjectured by the extent of space over which the heaving impulse is percep-

It is customary to estimate the presence or absence of cardiac enlargement by the location of the apical impulse in retation to the midetavicular line. Drs. Conn and Cole stress that the location of the apex impulse provides less precise information regarding left-ventricular hypertrophy or dilation than does the size or duration of the impulse ond that an impulse occupying two or more rib interspaces particularly significs increased muscle moss.

The question How do you feel? ought to apply not only to the patient but also to the doctor, and the proper onswer is: With | clnating story.)

Right Hand and Left Hand

WHEN PRESTOENT NIXON APPEAREO ON of American workers in the U.S. pharmatelevision to announce the steps be ceutical-chemical establishment. The exwas taking to cope with our economic cuse proffered has been that foreign drugs crises, he made specific reference to all of could be bought by governmental agencies us who "ore among the majority who buy at lower prices. But the money saved was American-made products in America." The recent monetary crunch in the United States came as no surprisa. For years a saved had our armed forces bought unigrowing schizophrenia between American forms in Hong Kong, vehicles in Japan, interests and Americoo policies has been and freighters in Italy. evident in different departments of the

Federal Government. tife and logic hove been simply brushed asida with blind prejudgments. The U.S.

penny ante compared to the hundreds of millions of dollars that could have been

MODICAL TRIBUNE fovors fair drug prices here and aboard but questions One of our major exports and the source whether these should lead to reduced reof favorable foreign currency balanca bas search, loss of taxes, elimination of Ameribeen the fruit of American technology. cao . jobs, and discrimination against ricon institutions. We believe that physiclans and patients would not want to incur such a panalty if all the facis were Govarnment has disregorded-and con- presented to tham. But logic and consisttinues to do so-oot only valid U.S. drug eocy do not rule and the right hand is often patents bot also the wage sesles and jobs unaware of what the left hand is doing.

Urologic Diagnosis for Abdominal Masses

tous exploratory surgary and its atlendant page 27.)

CLINICAL QUOTE: "The diagnostic di-lemma presented by abdominal when a brief interval of additional uromasses in children ofteo angenders a sense logic study cannot confirm or exclude a of urgency that can provoke basty and ingenitourinary derivation of a moss and complete study of the patient. It must be thereby obviate unfortunate situations publicized that the majority of these that can be engendered by exploratory ing Tofranil—to be ineffective (Tofranil the Study of Health and Society, 1050 masses arise from the genitourinary tract coelectomy." (Drs. R. Mark Kirk and is very effective and may mask organic disand that complete urologio evaluation is Ian M. Thompson, University of Miscasse. Conditioning probably works by 2000s. needed to avoid misdiagnosis or precipi- souri School of Medicine; see story



"Don't burn your candle at ell. Forgst you have one."

Eagles Into Chickens

Editor, MEGICAL THRUNK Wisconsin physicians continuing restrictive policy regarding abortions. Distrust Federal Court's recent action nuttifying state's abortion law. . . . News item. One is reminded of a little parable about

cagics, herein slightly modified: Once upon a time some baby cagles, fallen from their nest, were captured by a man who took them home and had them "live in" with his chickens, each one with

its wings lied together. They all became used to being "chickens." One day the man decided to grant his cagles their freedom. Ha took each one, untied its wings and said, "Go ahead aod fly," but the eagles were afraid to try it. "Our wings might not be equal to that,"

they said. "Besides, what if someona decldes next week to tle our wings up ogoin?" To be continued. . . . (When will the cagles recognize their new freedom and start using it? How long will they contioue in their role as chickens? Watch for more chapters of this fas-

> H. B. MUNSON, M.D. Repid City, S.D.

Treating Enuresis

Editor, MEDICAL TRIBUNE

Dr. Robert G. Gitlette ("Letters to Tribune") criticizes my views on enuresis, expressed in a "Current Opinion" guest editorial, arguing that improvement may have slammed not from correction of genitourinery disease as I reported, but from "suggestion alone, since enuresis moy respond to any treotment program that involves taking an interest in the child and suggesting to bim that his problem is curferring to "favorable results reported by others using bed buzzers, bladder stretching, and a wide variety of medications."

Ninety-six per ceal of the 500 childre that Dr. Arthur Glasburg and I treated ware referred by physicians and meny had had much "suggestioo," not to overlook psychotherapy, pliis, scolding, rewards, bladder distention, beatings, etc.

The lesions we detected were in all cases andoscopically, and in most cases radiographically, demonstrable, Improvement was almost invariable associated with on . obvious improvement in the potient's voiding pattern.

Controlled studies1-3 (one 30 years changing sleep patterns, and bladder dis-tention probably works (when it does) by

incrensing bladder capacity. And if suggestion were so effective, would we now ne discussing enuresis?

15

Dr. Gillette regards me as "off bose" for indicating that authors do not support theories of unmyelinated nerve fibers, etc., with histopathological slides, etc., because "few would deny" the existence of hysteria, depression, and schlzophrenia, though these conditions cannot be demonstrated histopathologically.

Have any authors theorized, as they have for enuresis, that those diseases are due to uninyelinated nerve fibers, immature ccrebral centers, or cord lesions? If they have, positive histopothological evidence would greatly strengthen their casa. SAMUEL J. ARNOLO, M.D.

Morristown, N.J.

t. Kuntn, S. A., Limbert, D. J., Platzker, A. C. G., and McGinley, J.: "The Efficacy of Impraming in the Management of Enuresis." J. Urol. 104: 612-615, 1970.

612-613, 1970.

2. Werry, J. S., end Cohrssen, J.: "Enuresis—An Etiologic and Thorapoutic Study." J. Pediatrics 67:#3, 423-431, 1965.

3. Browne, R. C., and Ford-Smith, A.: "Bauresis in Adolescents." Brit. M.J. 2:803, Dec. 6, 1941.

Hospitals and Mercury

Editor, MEDICAL TRIBUNE:

Your recent article on mercury pollution was informative but made no mantion of the problem as it relates to health professionals and to hospitals. Mercury poisoning is an occupational hazard of dental personnel. Furthermore, hospitals dump large quantities of mercury into the sewerage system each year.

The American Hospital Association has recently warned its members of this problem. Mercuric chioride, used in the preparation of Zenker's fixative, is the mercury compound most commonly discarded in able." He supports this contention by re- the sewerage. The A.H.A. noted that about 50 pounds of HgCL2 could be discarded with waste Zenker's per large medical facility per year,

In a survey we have recently begun, w found one Institution that poured 80 pounds of mercurlo chloride into the sewerage aach year. For this reason, we are undertaking OPERATION MERCURY to eliminate this source of contamination. Fuller details, along with a method of safely and inexpensively removing mer-curic chtoride from Zenker's solution, will appear this September in Young Doctors' Forum, the newsletter of the Coordinating Committee for a Second National House Staff Cooference, Copies of YDF will be agol) show placebos, brief psychotherapy, sent to the libraries of teaching hospitals and a wide variety of medications—exclud- or may be obtained from the Institute for

San Francisco, Calif.

ANTHONY BOTTONE, M.D.





Flying will allow interns and residents "to visit rural medical operations and experience different types of health problems and emergencies than they would normally encounter," says Dr. Pcttid. Above he checks the cagine of his plane before flying.

Flight Program Instituted to ... Rural Physicians Greater Mev Omaha-Based Project Offersac In Flying to Ease Doctor Short

TAKING THE HIGHWAY to work will mean something else to 11 interests who receive flight training in a new project at Creighton Memorial Saint it in

Organized by Dr. Michael Haller, head of the family practice programs. Navy organized by Dr. Michael Hamer, near the standard practicing in rural stan greater mobility. "A rural physician is more dependent on medical median nuing education short courses. If he can fly, he is more apt to take part in these failer. Increased mobility will also help break down the sense of isolation that contract practices are practically as a sense of isol titioners and their families in sparsely populated regions. This voluntary in open to all interns and residents at the hospital.

Program participant Dr. Fred Pettid emphasized other benefits, "Thereteians could provide temporary assistance to communities where there is a serious medical personnel or where the local physician becomes ill." Dr. Pettid, who realeted his family practice residency, added that these physicians would be able to be own patients to better-equipped facilities or bring in emergency cases.



"Il helps to know I have this type of freedom," says Dr. John Ford, who intends to practica in Nebraska, Montana, or Alaska. Above, he inspects an aircraft.



First of the interns in this year's class to receive his licens, pousins (r.) discusses instrumentation with Dunne Toelle, flight instructingram.



Technique of utilizing a cryostat to prepare very thin tissue sections is demonstrated to a number of the students at the Lausanne Center.

WHO Centers Training Immunologists To Confront Problems in Own Nation

THTERNATIONAL RESEARCH AND TRAINING CENTERS OF WHO seek to I nurture a nucleus of immunologists who will solve medical problems peculiar to their countries. Some centers, such as the one at Lausanne, Switzerland, give advanced training. Last year, one course there was attended by 14 physicians from 14 countries all over the world. Other Lausanne projects include studies of relationship between cellular immunity and leishmaniasis and research into gastrointestinal tract "local immuoity." It functions also as an immunoglobulin reference center, IRTCs are tocated in Ibadan (Nigeria), São Paulo, Mexico City, Singapore, Beirut, New Delhi, Rehovoth (Israel), and Basel.



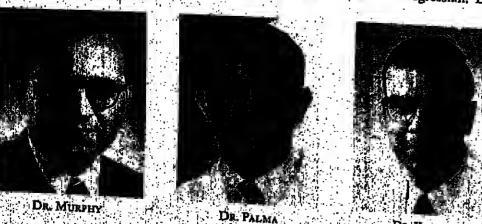
Transfer: Oral electrotyte-glucose solution developed for treatment of Asiatic choicea is used by NIAMD and Johns Hopkins U. School of Medicine physicians to trent diarrhea epidemics among Apache ehildren in Arizonn. (Left to right) Dr. Richard Cash, Lots Evans, R.N., Twliu Pailzote, nursing traince, and Dr. Norbert Hirschhorn are shown in the diarrhea ward at Whiteriver Hospital.



World Health Organization fellows, participating in a three-weak course in basic and applied immunology, listen to a lecture being given by Dr. David Rowe.



Renal tumor from first patient consists of numerous masses of round cells found to be arranged in a mixed papillary and tubular mode.



Cases of Renal Cell Carcinoma Seen in 2 Children in 6 Months

Two CHILDREN with renal cell carcinoma have been seen in less than six months by Drs. L. D. Palma, G. M. Kenny, and G. P. Murphy, from the Urology Department, Roswell Park Memorial Institute and State University of New York at Buffalo.

The first patient was a girl, first seen at age five and a half months because of abdominal mass found during routine exam. Surgical exploration revealed extensive retroperitoneal tumor, diagnosed as teratoma. Chemotherapy and radiotherapy resulted in its apparent regressian. Later, extensive exclsion of the tumor was accom-

plished. Two and a half years later, she returned with gross painless hematuria. Studies showed a mass at right midpoint of kidney. Entire organ, with tumor, was removed (see photo, right). Follow-up has shown no evi-

A 12-year-old girl was admitted with complaints of weight loss, vomiting, and pain in lumbar area. A large abdominal mass with metastases to bone marrow. Iver a section of prounded, partially a 3 by 2 cm. Retrograda in renal pelvis. I seatlon and distortion of pyclogram, right, defect at renal pelvis. I collecting systems a collecting systems. was discovered. An exploratory laparotomy, after chemotherapy with radiotherapy, was done, then nephrectomy. Histologic studies indicated clear cell renal carcinoma,



first patiant, reveals





HIMMI At special juncheon with menu consisting entirely of noncholesterol foods, Dr. Rodney Culler, cardlology fellow at University of Alabama in Birmingham, samples "meat loaf." Ali "meats" at this meal—bot dogs, chicken, sausage—were derived from soybean products. The purpose of the meal was to demonstrate to participating physicians that rigorous, noncholesterol diets can be tasty, even delicious.

Clinical Trials

Wednesday, October 6, 1971



Five New Tests

Offer Diagnosis

Of Hemoglobin S

Continued from page 1
Institutes of Health. Dr. Murnyamo's re-

search also laid the groundwork for the

team's development of the initial specific

test for the diagnosis of the disease, the

Murayama test, in which n dcoxygenated







Duodenal ulcer badge of success or penalty of failure?

The hard-driving executive who proudly displays his duodenal ulcer as a "badge of success" is an image that may be as inaccurate as it is overused.

His ulcer may well be a mark of failure. A penalty the patient pays for failing to resolve the anxiety-producing conflict between expectations and accomplishment. Indeed, the "ulcer patient" has been described as one who isn't easily satisfied,"whether he governs an industrial empire or combs a beach."*

The psychic stress of undue anxiety may be a part of the cause and may help influence the course of duodenal ulcer, which is why Librax with its dual action can be a helpful adjunct in the treat ment and eventual management of the ulcer patient.

Librax combines in a single capsule the well-known antianxiety action of Librium® (chlordiazepoxide HCl) and the potent, dependable antise cretory/antispasmodic action of Quarzan[®] (clidinium Br).

Since Librax, on recommended dosage, generally does not unduly in terfere with mental acuity or ability to function, it is usually well adapted for the majority of patients.

In the management of duodenal ulces make Librax part of the program you patient responds to best.

terology, New York, Hoeber Medical Division

Harper & Row, 1963, p. 206.

sample of the patient's blood is placed in a 37° C. environment end then quickly cooled to 0° C. The sample will gel at 37° C and liquefy at 0° if it contains hemoglobin S. The first of the new tests is a simplificotion of the Murayama test technique. Be-

cause of the time required, it is not suitable for mass screenings, Dr. Wolf said. "We've modified the test by using moist nitrogen to remove oxygen from the blood sample, instead of dry ice," he snid. "This speeds up the process to about 20 min-

utes." Originally, it took one hour. The four other tests-dithionite tube test, ures-dithionita tube test, ood auto-mated edaptations of the two-utilize a solution containing dithionite to test for sickling hemoglobin. The chemical reagents in oll four are potossium phosphate, sodium dithionite (sodium hydrosulfite), and saponin (sneke venom). When a blood somple containing sickling hemoglobin is introduced Into the solution, the

system will become turbid. This screening procedure for sickling hemoglobia takes less than five minutes in the test-tube version end 30 seconds utilizing en Autoonelyzer, both at a cost of 2¢. Dr. Wolf said.

If e patient tests positive in the dithionite test screenings, physicians can test specifically for sickle-cell anemia by cerrying the test one step further. Urea is added to the turbid system. If hemoglobin S is present, the system will uncloud.

"Only e dithionite solution containing hemoglobin S will uncloud when area is edded," Dr. Wolf said. "The prea-dithioulte tube test and automoted uree-dithionits test provide ue with specific tests for sickle-cell enemia, Non-S sickling hemo-



At blood benk meeting, Dr. Jung S. Klai, coaxhibitor from Philedelphia, end Dr. Waltar F. Clesielski, also of Philadelphia, discuss method for hervesting large quantitles of normal granulocytes obtained by filtration-lenkopheresis from single donors. Technique is basad on selective adsorption and elution of cells on plastic fibers using a pH differential. Event was in Chicago.

Commemorative Stamp Issue Helped Blood Collection

Medical Tribune Report

CHICAGO-Blood procurement was helped importantly this year by the "Giving Blood Soves Lives" postage stnmp, occording to Dr. John Bernard Henry, president of the American Association of Blood Bnnks.

"I believe the enumemorntive issue tamped out blood shortages for six nonths," said Dr. Henry, Many blood hanks had new donors. There were headlines like "Blood Drive Huge Success" and "Blood Bank Exceeds All Previous Marks." In contrast with previous years, the New York Blood Center and many other big hanks did not need to make special Fourth of July

Dr. Henry said the Postal Service is ocing urged to issue stamps to encourege volunteer service of all kinds. Such stamps have been issued in Europe.

The outomated urco-dithionite test re-

ulres one minute and costs 4-8c per test. Extensive field trials of the dithlonita tests have been successfully undertoken at the U.S. Army Medical Research Laboratory Fort Knox, Ky., Dr. Wolf said. The automated dithionite test was used to screen 7,000 troops, with hemoglobin S detected in approximately 100.

The other members of the research team are Lieut, Col. Frank Camp, of the U.S. Army Medical Research Laboratory, Raymond L. Henry, Ph.D., Associate Professor of Physiology at the Woyne State University of Medicine; and Bruce M. Nichols, a chemist of Blodgett Memorial Hospital.

New Method Can Be Utilized For Hepatitis Screening

From Ortho Research

new counterelectrophoretic technique for detecting hepatitis-associated antigen that can be used for routine patient screening in blood banks and clinical leboratories was described by Dr. Deniel Tripodi, Director of Immunology, Ortho Research Foundation

Dr. Tripodi reported that in saveral hundred patients, the new clinical technique rielded results that agreed 93 per cect with those attained by more complicated research methods. In oddition, 37 per cent of petlents with symptoms diagnosed of hepa-

Since the new technique employs animal rather than human autibodies, sald Dr. Tripodi, it offers the important edvantege of stendord specificity ettained through production control. Polating out thet antigen concantrations cen vary widely, he stressed the necessity of using e standardized actiserum and system for the best results.

Coeuthors of the paper were Drs. Albert McKee, Ortho Research Foundation, Devid J. Gocke, Associata Professor of Clinical Medicine, Columbie University College of Physicians and Surgeons, Allan G. Redeker, Professor of Medicine, University of Southern Celiforole; and Willlem Pollack, Director of Research Diagnostics. Ortho Research Foundatioo.

Careful Selection of Patients May Cut Radical Mastectomy

Continued from page 1

the breast and all tissue surrounding it for a distance of 3 cm. Patients who had coneers elsewhere than in the brenst were excluded from the series, as were those with multiple palpable lumps, those with Pnget's discuse, and those who had received previous cancer treatment.

All pitients in the study, which is continuing, received rodiotherapy by lincer accelerator for three weeks after their operntions. "We tried to keep the radiotherapy the same," Dr. Haywerd sold. "Thus the study is essentially one of effectiveness of different operations."

No Diffarence in Survival

Dr. Hayward reported that efter 90 months there was no significent difference hetween the percentage of patients remaining alive who had received the smaller opration and those who had received the larger. With radical mostectomy 64 per cont were nlive; with wide excision 67 per cent were nlive.

After five years, Dr. Haywerd reported. 89 per cent of the women who had received radical mostectomy had remained free from local recurrence of their tumors, while in those who had received the wide excision only 69 per cent hed remeined frea of such recurrence. However, he noted, where there wes local recurrence among those who had received the wide excision operation, it could generally be well hondled by surgery.

In women with smell breasts, tha wide excision operation made a considerable cosmetic chenge. In one case, for which he showed e slida, the breest operated on hed beeo so altered in shape by the wide excislon method that, from the cosmetle point of view, ha believed the result wes probobly no botter than with radicel mastectomy. In women with larger breasts, bowever, the wide excision made less change. In one patient, whose photograph was projected for tha conferance, there was virtually no visible difference between the breest opereted on and the other.

Dr Hayward eaid psychologic tests fects of the two operations. Among those who had received the radical operation 14 per cent were found to have a "poor attitude," while among those with the smeller operation only 4 per cent were found to hove a poor ettletude. These petiants were examined 14 months after their operations.

Not Advocating Treatment

In recent weeks, Dr. Heyward said, exnminotion of the two groups bas shown that if there ere large nodes in the axille, the survival rote with wide excision is lower than with radical mastectomy. But the survivel rate from wide excision is better than that with radical mastectomy in those petients with no nodes in the axilla.

"I am not edvocating eny particular treetment," Dr. Hayward said, "I nm only reporting findings. But I think we can ex- cach state to decide what they ere going pect in the future to be eble to select the patients who will benefit from the simpler

Dr. Hayward's view of a coming im- eoforce its recommendations.

provement in the selection of potients eccording to the particular therapy that Is appropriate for their individual case was seconded by Dr. Uniberto Veronesi, head of the National Cancer Institute, Milan. who called for more research "on selective types of treatment depending on more cureful evaluation of the patient." The prognosis in breast concer. Dr. Veronesi said, is conditioned mainly by distant metastuses. "The old maxim the smaller the cancer, the higger the operation' no

longer holds," he added.

A French specialist, Prof. Claude Lalanne, Centre Anti-cancércux, Nicc. said doctors should be interested in the "quelity" of the survivel of the patient, and he added: "What we need is an answer to the fundamental question of the overwhelming emotional blow to the patient of the amputation that is often proposed." There was agreement, including that of the surgeons, when the French Immunologiet and specialist on the HL-A systam, Dr. Jean-Louis Amiel, of the Institut Gusteve Roussy, said: "Surgery is not a satisfactory solution to this problem."

There will be no panocea," concluded Dr. Hnyward. "There will be no treatment of cerly breast cancer; there will be many

Authorities in U.K. Stop **Vaccination for Smallpox**

Continued from page 1 ... ment's chief medical officar, declared here that the riek of complications from vaccinotion are now greeter than tha risk of

The scales have just gone down on the other side," he told Medical News-

PHS Expected to Advise End To All Routine Vaccination

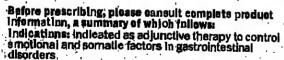
Medical Tribune Report ATLANTA. GA.-The discontinuance of routing immunization against smallpox is expected to be recommonded shortly by the Advisory Committee on Immunization Practices of the United States Public Health Servica

There is no longer a significant risk of importation ead spread of smallpox in the United States, seid Dr. David J. Sencer, director of the Center for Disease Control

No confirmed case of smallpox hes been reported in the United States sioca 1949, Dr. Sencer pointed out. However, six to cight persons die ennually from the adverse effects of the immunity shots

. The committee is expected to favor sejective protection for medical personnel and trevelers in countries where the disease is still prevalent, be said

It will be up to the health nuthorities of to do following the committee's recom-mendations, Dr. Sencer explained The committee does not have the authority to



Contraindications: Patients with glaucoma; prostatic hypertrophy and berilgn bledder neck obstruction; known hyperseneltivity to chlordlezepoxide

hydrochlorida and/or cildinium bromids.

Warnings: Caution patients about possible combined effects with alcohol and other CNS depressants. As with all CNS-acting drugs, caution patients against hazardous occupations requiring complete mental alertness (e.g., opereting machinery, driving). Though physical and psychological dependence have rarely been reported on recommanded doses, use caution in administering Librium (chlordlazapoxide hydrochloride) to known addiction-prone individuals or those who might increese dosage; withdrawal symptoms (including convuisions), following discontinuation of the drug and similar to those seen with barbiturates, have been reported. Use of any drug in pregnancy, lactation, or in women of childbearing age requires that its potential benefits be weighed against its possible hazards. As with all anticholinergic drugs, an inhibiting effect on lactation may occur.

Precautions in elderly and debilitated, limit dosage to smallest effective amount to preclude development of ataxia, oversedstion or confusion (not more than two capsules per day initially, increase gradually as needed and tolerated). Though generally not recommanded, if

combination therapy with other psychotropics sasms indicated, carefully consider individual pharmscologic effects, perticularly in use of potential drugs such as MAO inhibitors and phenolhiszines. Observe usual precautions in preaence of impaired renal or hapalie function. Paredoxical reactions (e.g., excitament, atimulation and scuts rage) have been reported in psychiatric patients. Employ usual precaulions in reetment of anxiety states with evidence of impending

in the treatment of duodenal ulcer adjunctive

HCl and 2.5 mg clidinium Br.

depression; suicidal tendencies may be present and protective measures necessary. Variable effects on blood coagulation have been raported vary rerally in petients receiving the drug and orel anticoagulants; causal reletionship has not been established clinically

Adverse Reactions No side affects or manifestations not seen with allher compound alone have been reported with Librax. When chlordlazepoxida hydrochloride is used alons, drowelness, ataxia and confusion may occur, aspecially in the alderly and debilitated. These are reversible in most instances by proper dosage adjustment, but are also occasionelly observed et the lower dosage ranges. In a few instances syncope has been reported. Also encountered are isolated instances of skin aruptions, edema, minor menetrual irregularities, nausea and constitution, extrepyramidal symptoms, increased and decreased libido—all infrequent and generally controlled with dosage reduction; changes in EEG patterns (low-voltage fast activity) may appear during and after treatment; blood dyscrasias (including agranulocytosia), jaundica and hepatic dysfunction has been reported occasionally with chlordiazapoxide hydrochloride, making periodic blood counts and liver function tests advisable during pretracted therapy. Adverse effects reported with Librax are typical of anticholinergic agents, i.e., dryness of mouth, bluring of vision, urinary installancy and constitution. Constitution has occurred most often when Librax therapy is combined with other apasmolytics and/or low residue distage. used alone, drowelness, ataxia and confusion may occur.

STERILE SPECTINOMYCIN DIHYDROCHLORIDE PENTAHYDRATE, UPJOHN

Official Scores Emergency Room's Replacing Family MD

CHICAGO-A hospital official has expressed alarm over the growing trend of using hospital emergency rooms to replace the fam-

The official, Lloyd B. Wescott of Rosemont, N.J., participated here in a two-day forum on emergency department organization, administration, and operation. The meeting was sponsored by the Committee on Injuries of the American Academy of Orthopaedic Surgeons.

Mr. Wescott is president of the board of trustees of Hunterdon Medical Center, part out of the emphasis by medical Flemington, N.J., and a member of the American Hoapital Association committee that drew up that organizatioo's proposal for national health care legislation,

He observed that "the emergency room is a facility few community hospitals can fail to provide," but that there is one developmeet affecting emergency room service "that I view with great alarm." "More and

cian, being asked to provide care which is not emergent, or need not have been, had more appropriate care been available earlier. This, if continued, will, quite

simply, swamp the system." Mr. Wescott outlined several reasons for the growing use of the enucrgency room to replace the family physician:

 Onc of these is "the dccreasing number of doctors willing to provide a broad spectrum of primary care," growing in schools on specialty practice. "More and more people simply 'cannot find a doctor,' and the emergency room is the only alter-

 Doctors cannot work aeven days a tient, unsure of finding his doctor, is apt to head for the emergency room first."

Tha most important reason why emer-

gency room is replacing the family physithe advent of Medicare and Medicaid. "For years, hospitals pretended to nicet the

medical needs of the nation's poor and underprivileged by providing specialty clinics. Now that these people are told they can have a doctor of their choice, they cnnnot find one and turn to the entergency room for enre. Mr. Wescott sald

he disagrees with those who maintain that the emergency room is the only way to provide care for nationts who cannot find a primary physiweek, 24 hours a day, "so the anxious pa- cian. The emergency room, he said, cannot deliver an acceptable quality of primary care, and such care "is buund to he

Special Surgery Hospital Issues a Biannual Review

Medical Tribune Report NEW YORK-The first issue of The Reine of the Hospital for Special Surgery is as available, Edited by Dr. Allan E. Ingital

wilf appear twice a year, Its goal "will be to share the experies of the institution-to convey opinion at information from the urthopedic, the

nutic discuse, and research services." Members of the staff will have the to portunity to express their opinions about the proper function of the scientific con munity In the review's section "Commo tary," Dr. Luglis said.

Anuther section, "Surgeon-in-Chien Conference," will present selected lead ing cases with radiographic, pathologic and medical discussions,

The first issue includes studies of the pathology of cerchmi paisy, LSD and gas grene of the hand, and repair of its. thickness defects in the articular cardia

Vitamin A Deficiencies in the U.S. Seen Neglected in Standards Dispute

children of migrant workers in Culorado,

investigators found significant correlations between low vitamin A levels and the inci- feets to some of them. dence of skin and upper respiratory infections and several other symptoms.

"Who knows, in a child with blood level deficiencies, how far he is from a frankly deficient state, in which symptoms become apparent?" he asked. "Can we not, at the very least, assume that his intake is barely meeting his requirement?

"If such symptoms are in store for even some of the children with low scrum levels of vitamin A, we must be concerned."

Summarizing several recent studies, Dr. Murray said a significant percentage of most age groups in North America lack appreclable liver reserves of vitamin A and 20 to 30 per cent fall to consume the recommanded daily allowance. And olthough most North Anicricon adults have ade-

portani number" of children fall helow the neceptable level, with adverse health ef-

To help solve the problem, he recommended further study toward hetter defining of human needs, care in replacing .vítamin A lost during processing of foods, and addition of vitamin A to some hasic foods, such as flour.

Dr. Murray also urged that a new category of measuring be added, one at which "we do not need to shout 'deficiency' but with which we are not quite satisfied," so that we need not wait until the danger level is reached before sounding the alarm.

The congress was organized by the Anverican Institute of Nutrition and the A.M.A.'s Council on Foods and Nutrition, in cooperation with La Sociedad Latinoamericana de Nutrición and the Nutrition Society of Canada.

Forest Service Owl Is Wise in Ecology

'Glyc a Hoot . . . Don't Polluic," says Woodsy Owi, newest member of the U.S. Forest Service's sove-nur-environment campaign. Like his companion Smokey the Bear, he will state messoge on posters, in adverilsenicats, and on TV-rodio broadcasts. Woodsy-no bird brain when it comes to ecology - mects Clifford Hardin, Secretary of Agriculture, and wife.



Announcing a chemically distinct antibiotic for treatment of acute gonorrhea

in the male: acute urethritis and proctitis/in the female: acute cervicitis and proctitis when due to susceptible strains of N. gonorrhoeae



Sterile Trobicine (specilnomycla dihydrochloride pen- in the female when due to susceptible stroins of N. tahydrate) - For Intramuscular Injections

4 gm vials containing 10 mf when reconstituted with

An ominocyclital antiblatic active in vitro against most mask or dalay the symptoms of incubating syphilis. strains of Neisseria gonorrhoeae (MIC 7.5 to 20 Patients should be carefully examined and monthly. mcg/mi). Definitive in vitro studies have shown no serological follow-up for at least 3 months should be

and penicillin.

Indicationer Acute ganorrheal wrethritis and practitis In the male and acute ganarrheat cervicitis and proctifis

donorrhoace.

2 gm viols containing 5 ml when reconstituted with Contraindications. Contraindicated in patients previously found hypersensitive to Trobicin. Not indicated: for the treatment of syphilis. Warnings: Anlibiotics used to treat gonorrhea may

cross resistance of N. gonormoege between Trobicin Instituted if the diagnosis of syphilis is suspected. Solely for use in infants, children and pregnant women

has not been established.

ment of resistance by N. ganarrhoeaa.

Precautions: The usual precoutions should be observed with atopic individuals. Clinical effectiveness should be monitored to detect evidence of develop-

Adverse reactions: The following reactions were observed during the single-dose clinical triols: soranass of tha injection sila, urilcorio, dizziness, nousea, chills, fever and insomnlo.

During multiple-dose subchronic toleronce studies in normal human volunteers, the following were noted: 0 decrease in hemoglobin, hemotocrit and creatinine clearance: elevation of alkoline phosphotose, BUN and SGPT, in single and multiple dose studies in hormal volsingle-dose treatment for intramuscular use only

High cure rate: 96% of 571 males, 95% of 294 females (Dosages, sites of infection, and criterio for diagnosis and cure are defined below.)*

Assurance of a single-dose, physician-controlled treatment schedule

No allergic reactions occurred in patients with an alleged history of penicillin sensitivity when treated with Trobicin, although penicillin antibody studies were not performed

Active against most strains of Neisseria gonorrhoeae in vitro (M.I.C. 7.5-20 mcg/ml)

A single two-gram injection produces peak serum concentrations averaging about 100 mcg/ml in one hour (average serum concentrations of 15 mcg/ml present 8 hours after dosing)

*Data compiled from reports of 14 Investigators.

*Diognosis was confirmed by cultural identification of N. ganarrhoeae on Theyer Mariin medio in oil polients. Criterio for curai negotive culture oftar of least 2 days post-traotment in moles and at least 7 days post-treatment in famoles. Any positive culture obtained post-tradiment was considered evidence of treatment foliure even though the follow-up period might have been less than the periods cited above under "critario for cure" except whan the investigator determined that rainfection through additional sexual contacts was likely. Such cases were judged to be rainfections rother than relopses or foilures. Thasa cases were regarded as non-evaluatable and were not included.

sive renol function studies demonstrated no consistant

changes Indicative of renal loxicity. Dosage and administration: Keep at 25° C and use within 24 hours ofter reconstitution with diluant.

Mole - single 2 gram dose (5 ml) intromuscularly. Potlants with gonorrheol proctitis and patients being retreated ofter foilure of previous ontiblotic therapy should receive 4 groms (10 ml). In geographic areas where calibiotic resistance is known to be prevalent, inilial treatment with 4 groms (10 ml) infromusculorly is preferred.

Single 2 gram dose I.M. in acute gonorrheal urethritis. Single 4 gram dose I.M. (should be divided between two gluteal

injection sites) in gonorrheal proctitis and in patients being retreated after failure of previous antibiotic therapy. In geographic areas where antibiotic resistance is known to be prevalent, initial treatment with 4 grams intramuscularly is preferred.

Intramusculor injections should be made deep into the upper outer

Adult male:

quadrant of the gluteal muscle.

Single 4 grain dose I.M. (should be divided between two gluteal injection sites) in acute gonorrheal cervicitis and proctitis. Safety for use in pregnancy has not been established, nor has safety for use in infants and children.

Note: Antibiotics used In high doses for short periods of time to treat gonorrhea may mask or delay the symptoms of incubating syphilis. Since the treatment of syphilis demands prolonged therapy with any effective antibiotic, and since Trobicin is not indicated in the treatment of syphilis, patients being treated for gonorrhea should be closely observed clinically. Monthly serological follow-up for at least 3 months should be instituted if the diagnosis of syphilis is suspected. Trobicin is contraindicated in patients previously found hypersensitive to it.

untaars, o reduction in urina output was noted. Exten- Famala -- singla 4 gram dose (10 ml) intramuscularly.

How supplied: Viols, 2 and 4 grams - with ompoule of Bocterlostofic Wotar for falection with Benzyl Alcohol 0.9% w/v. Raconstitution yields 5 8 hours and 10 ml respectively with a concentration of specifinomycln dihydrochloride pentohydrote equivalent to 400 mg spectinomycln per ml. For intromuscular use only... Suscaptibility Powder - for testing in vitro susceptibility of N. gonorrhoeae.

Human pharmacology: Ropidly absorbed ofter In-Iromusculor injection. A two-grom injection produces Upjohn The Upjohn Company, Kalamazoo, Michigan 49001

peak serum concentrations overaging about 100 mcg/ml of one hour with 15 mcg/ml at 8 hours. A fourgram injection produces peak serum concentrations overaging 160 mcg/ml at two hours with 3f mcg/ml at

For additional product information, see your Uplahn representative or consult the package

Continued from page 1 instructions furnishes six different codons for leucine, there also are six species of leucyl-tRNA species 1 through 4 without tRNA to pick it up, which they do if prop-

erly aminoacylated by synthetase.

One of the first findings was that the was a 50 per cent reduction in leucinsacceptor activity in 21-day cotyledons compared with five-day-old leaves.

A more detailed picture of the aging effect emerged when the investigators terview, are consistent with a hypothesis moved the mechaoisms in vitro so that young synthetase could be used to charge old tRNA and vice versa.

young tRNA, a distinct unbalance appeared among the slx isoacceptiog species -numbers 1 through 4 fell off markedly io acylatioo whlle 5 and 6 were charged nearly as well as they had been with young ayothetase.

The converse experiment-young enzyme to charge old tRNA-turned up simi- mechanism entails a shift in the machinlar results. The over-all conclusion from both mixes was that tRNA species 5 and 6 become the predomioant leucina acceptors in the old cotyledon.

Several different versions of the mixed-

age charging experiment further con-firmed that age reduced the acylation of hibitory complex. really cramping 5 and 6.

Moreover, it was demonstrated that increasing the amount of old synthetase to relative amounts of the six tRNA species charge tRNA actually lowered the chargchange with cotyledon age. The total effect ing rate, indicating an inhibitor function somewhare in the works.

Aging a Programmed Process

The results, said Dr. Strehler in an inthat aging is a programmed developmental process and not simply the "wearing out" of unreplenished parts. The results also When old synthetase was used to charge indicate that the variability of genetic "language"—as in the six different codons for leucine-may well play a part in the programming.

Thus a geoetic message designed to changa the nature of enzyme production in a developing cell must also turo off the cell's former enzyme production. If the ery's ability to translate the genetic message, then the inhibitor function must be codad in soma language tha cell can still instance, the sheer accumulation of man Development.

assistant

antibacterial film | pH of 5.5 | hypoullergenic

Available in unbreakable squeeze bottles of 5 sz and I pt., and in plastic cantolners of Vi and I gal.

References: 1. Hodges, F. T.: GF 1486, Nov., 1986. 2. Wexler, Louis Clin, Med. 70, 404, Feb., 1963. 3. McLerin, I. E. D., Grahom, K. T., and Bost, M. O., Practitional 189.

Winthrop Laboratories, New York, N.Y. 10016

contains no irritating materials.

philiphies a post och met in dane entit chier dermanage

Constitution of the precipitation of the precipitat

ple clearising with philodies."

Thighly surface ective enterior emulaties oil, perses soil, clears more completely than soop

Dr. Strehler likened the genetic language shift in development to "n treasure hunt game, where you go to one place to get the instructions to the next placa."

If sequential instructions are somehow written in different codons for the same amine acid, then those codons are nut really redundant. About 20 untino acids go into protein manufocture, but there are more than 60 possible triplet coduns in a cell's genetic inaterial in order them up. Most amino neids-including all of the essential ones-are coded by more than one

Since the genetic code is universal for llving things, perhaps the surplus of codons really is redundant in hacteria, Dr. Strehler conceded. But when the living thing is an aggregation of highly differentiated cells, then the variability uf genetic language becomes a possibility for o control mechanism.

Dr. Strehler discussed the work and its Implications at a session on the biology of aging, conducted at the Jackson Laboratory under the sponsorship of the Nnunderstand. Io the cotyledoo situation, for tional institute of Child Health and HuLake Mercury Studied



Natural mercury decontamination ! necelerated in eutrophic lakes, purpl lotes Frank D'Itrl, Ph.D., of Michies State University, Fast Lansing, He ! studying two lakes-one entrophic, ollgotrophic. Above, Dr. D'Itri (r.) at lab supervisor Charles Annett test for mercury by using the flameles technique of otonile absorption.

Heart Surgery: Many Hospitals Are Underutilized

Medical Tribune Report

NEW YORK-Many of the nation's he pitals performing cardiac surgery are to derutilized to a degree that raises who questiums about their value," the intercicty Commission for Heart Disease to sources sald.

The commission's surgery study prop declared in a report that a minimum of four to six open heart operations should performed weekly in cardiac center;

Previously, it was the judgmentinged constitute the minimum for nn effective upen heart surgical propus but, the 1.C.H.D. said that unless most open heart operations are performed these hospitals, the professional staffs may find it difficult to mulntain their tills

Furthermore, the commission said der present cunditions the expense of maintaining costly facilities for open intail surgery seems economically unsound.

Results of Surveys Clied

The report cited results of two sures of hospitals performing one or more of disc procedures annually. In 1961, at 18 hospitals surveyed, only nine performs four or more open heart operations a and (200 a year). In 1969, of 360 hospital surveyed, only 15 performed 200 sta operations a year, while almost one be-performed only 10 to 49.

The report atressed that If cardiac car. ters-primarily located in the larger che. or in communities with medical school are to avoid the problem of underuilied tion, a reasonable system of referral ed.

transportation must be developed. The most pressing problem of any est diac surgical center, according to the r. port, is the recruiting of adequate dis since cardiac surgery requires 24-hour covarage and generous stafflog at all lend -including qualified medical, surges technical personnel. Two and preferal mesthesiologic, radiologic three qualified cardiac surgeons was recommended for a center bandling for to six open heart cases a week.

Chairman of the surgery atudy group?

Dr. J. Gordon Scannell, Associate Profesor of Surgery at Harvard Medical Schools and visiting surgeon at Massachuse General Hospital.

Chess Solution

Black wins by 27 Q-R5 ch, K-Nl (27 K-B1 fails to 28 B-K51 P-ON3; 29 Q-R6 ch etc.); B-K5 ch, K-R1; 29 QxRP ch KxR; 30 R-QR3 ch, K-N3; 31 R QNI mate.

From laboratory to laboratory.

Dalmane (flurazepamHCI) 30 mg usually induced sleep within 22 minutes, decreased noctumal awakenings and provided 7 to 8 hours of sleep without need to increase dosage during the night, as demonstrated by more than 4300 hours of electro-objective measurements in five sleep

From patient to patient.

Dalmane 30 mg was lound to be effective for patients with difficulty in falling asleep, staying asleep or both.

From night to night.

Of three hypnotic agents -- chloral hydrale 1000 mg, glutethimide 500 mg, and Dalmane 30 mg - evaluated in studies in a steep taboratory, *only Datmane* 30 mg both : induced and maintained sleep for 14 consecutive nights

With relative safety, as reported in clinical studies.

Instances of morning "hang-over" have been relatively infrequent; paradoxical reactions (excitement) and hypotension have been rare. Dizziness, drowsiness. lightheadedness and the like were the side effects noted most frequently, particularly in the elderly or debitilated.

References: 1. Data on tile, Medical Department, Hollmann - La Roche Inc., Nutley, N. J. 2. Kales, A., et al.: Arch. Gen. Psychiat, 23 226, 1970.

Before prescribing Dalmane (flurazepam HCI), please consult Complete Product information, a summary of which follows:

Indications: Effective in all types of insomnia pharacterized by rifficulty in falling asleep, frequent nectional awakenings and/or early incruning awakening, inpatients with recording insumina or poor sleeping trabits, and an acute or obtains merfical situations requiring restful sleep. Since inscrima is often transient and informittent, motorged administration is generally not necessary or renonmended. Contraindications: Known hypersensitivity to flurazepam HCi

Warnings: Caution patients about possible combined effects with alcohol and office CNS depressions. Caution makest naturations occupations requiring compiled mental aterlaces. (e.g., operates y may be ery intiving). Use in women who are or may become pregnant only when potential against have been weighed against possible hazards. Not recommended for use in persons under 15 years. of age. Though physical and psychological dependence have not been reported on recommended deces, ase caution in administering to addiction-prone

Precautions: In elderly and dichitated initial desage should be writed to 15 mg. fraving hypnopic or CNS-depressant effects, consider potential additive effects. depression of similar tendence : Periods allocal courts and liver and kidney baction tests are advised throng reproted therapy. Observe usual precartions in presence of impaired result or hopatic function.

Adverse Reactions: Div. geas, grownings, hightheadodiness, staggering, ataxia and falling have contained particularly or endelly or deb finated patients. Sovere sentation, lecturing description and carea, probably indicative of drug inhenthiam, updet forance, galasea, verniting, diabities, densityarion. Glipain eyes, la nimeso, hypotenische strottocha of Incorte, mantos, stori rasti, dry mouth, biller la de, oximismes, solivation, otrocisca, miptismo, depres sisci, sturred spouch confusion, reallessness, fundacinations and elevated SOOT, SQP1, total and direct barnbars and alkaline phosphatase. Paradesidal reactions, p.g., excitement, amulation and hyperactivity, base also been reported in care instances

Dalmane[®] (flurazepam HCI)

One 30-mg capsule h.s.-usual adult dosage One 15-mg capsule h.s. - initial dosage for elderly or debilitated patients.



Roche Laboratorios Division of Hoffmann -La Roche Inc Nutley, New Jorsey 07110

Consistently kept patients asleep for 7 to 8 hours





Smoking, Drinking, and Experimenting With Other Drugs Among Marijuana Users and Nonusers*

	Nonusers of	Marijuana users		
	Marijuana (1,424)	Experimenters (158)	Occasional ar frequent user (103)	
Percentage Who Have		-	(105)	
SMOKED CIOARETTES DRUNK LIQUOR APART	22%	91%	78%	
FROM FAMILY TRIED OTHER DRUGS**	45%	91%	93%	
Heroin	1	0	12	
LSD	1	0	55	
Glue "Downs" or	3	10	37	
barbiturates "Ups" or	1	18	71	
amphetemines Tried one or two	ī	38	74	
of the five drugs Tried three or more	2	35	29 .	
of the five drugs	1	6	51	

*This is based on a weighted sample of 1,701 (the actual number interviewed was 498). The totals of nonusers and marijuana users do not add up to 1,701 because not all respondents provided information about their bohavior with regard to the drug. Experimenters were those who had used marijuant one to nine times; occasional and frequent users were those

**18 per cent of the occasional and frequent marijuana users did not answer the question about heroin use; 12 per cent of the occasional and frequent users did not answer the question about use of glue. The percentage of nonusers of marijuana, experimenters, or occasional and frequent users who did not answer questions about other drugs in no case

15% of Americans Aged 12-17 Found to Have Smoked 'Pot'

Continued from page I tha youngsters surveyed as "experimenters"-that is, those in the 12-tu-17 age bracket who have tried marijuana no more than nine times. Three per cent were classified as "occasional users," having smoked "grass" from 10 to 59 times, and another 3 per cent as "frequent users," who have tried marijuann 60 times or

About one out of seven youngsters was found to have tried marijnanu uno time or more. The data did not show the sex difference in marijuann use expected by the investigators. According to the annuling, girls were only slightly less likely tu have tried the drug than boys, not very different in the frequency of its use, and, if not already using it, not much less interested in Irying the drug.

Another surprising fact to emerge from the survey, according to the report, was the number of youngsters who have tried liquor away from home. Almost one-half of the nonusers of marijuane reported lmblbing, and among the users of marijuana the proportion was even higher: more then nine-tenths of the "pot" smokers

stated that they have consumed lique away from home.

The results of the survey, conducted by Muy, support "the fairly plausible assume tion that eigarette smoking is a precure of marijuana use," occording to the sethurs of the paper, Eric Iosephson, PhD Associate Professor; Paul Hoberman ad Aune Zanes, research associates; and led Elinson, Ph.D., all of whom are in the public health school's division of sech medical sciences.

While only 3 per cent of the nonsmokers have ever tried marijuana, a many as 50 per cent of satokers have the it, they said. Conversely, only one in eight nonusers of marijuma has smoked cigaettes, while three-quarters of marijusas users have done so.

"Experimenters" Smoke Cigarettes

It is worth noting, the investigator, added, that the "experimenters" are cosiderahly more likely to be eigereigh smokers then the "frequent users" of the drug. In the survey group 83 per cent of the former are also eigarette smoken but among the latter the figure falls to 64

It is possible, the team observed, that while youthful eigarette smoking my "lead" to marijuana use, the taste for circ. ettes moy decrease as use of the drug is

The report emphasized the close relationship hetween the use of Cannabia tivn and experimentation with other most changing drugs. Among the nonuser of marijuana in this survey, ao more and 3 per cent soid they have tried any of he five other drugs included in the quationnoire. The marijuana users, on the other hand, were far more likely to have fried these drugs, with the frequent uses of marijuana reporting by far the guide

Thus, among the lutter, 91 per centiare also tried amphetamines, 82 per centiare tukon barbiturules, 62 per cent have used LSD, 33 per cent have sniffed give, and-Il per cont have taken herolit.

Region, Age Combina as Factors

Another major finding was that it is all region or uge ulone that accounts for diferences in the use of morlinano but s combination of these two factors. The dale. Indicated that regional differences became more pronounced among the older adolescants in the sample, While II per cent of the Southern youngsters from 12 to 17 years old reported smoking "pot," lothe Northeast the proportion is 20 per cent ond in the West 23 per cent. Among le end 17-yeer-olds, howaver, while only 13 por cent of the Southern sample recorded use of the drug, the percentages in the Northeast and West were 33 and 39 per cont, respectively, in this latter aga cale-

In contrast with this aga difference, the authors reported finding oo major age differences in the proportions of nonusers who said they would like to try marljuanspossibly because as many older youths as want to use it are doing so, while the younger ones have not yet sotisfied their

Another area of interest to the Columbia research team was the relationship between family income and marljuana use. It was found that 6 per cent of youngsterfrom families with an annual income under 10,000 have tried pot, In contrast to 19 per cent of youngsters from families with income of \$15,000 or over.

EPIGRAMS—Clinical and Otherwise

Physicians and public health officials, like soldiers, are always equipped to fight the last war.

René J. Dubos [1901-] The Dreams of Reason, Ch. I. happy anniversary?



A time for her to look back. For you to look ahead...to the long course of therapy required to hold her blood pressure down.

Because she has sustained hypertension, decisive therapy should start right now. With Ismelin. Before hypertension progresses further.

Because Ismelin is guanethidine. Perhaps the most effective antihypertensive ever available.

It's often right for the patient who's a long-term proposition. Like most patients with sustained hypertension. Because when blood pressure is controlled with Ismelin, it usually stays controlled.

For the immediate situation. For long-term management.

Ismelin'sulfate (guanethidine sulfate) the antihypertensive for what may lie ahead

INDICATIONS: Primarily for severe or sustained elevation of blood pressure (particularly diastolic) and almost alt forms of fixed and progressive hypertensive disease, even when blood pressure elevation is moderate. Not recommended for is bile or

CONTRAINDICATIONS: Proven or suspected pheochromocytoms; hypersensitivity to Ismelin. Do not use with MAO

WARNINGS: Ismelin is a potent drug and can lead to dis-turbing sod serious clinical problems. Warn patients not to deviate from instructions and about the potential hazards of orthostatic hypotension, which can occur frequently. To prevent fainting, patients should ait or lie down with onact of dizziness or weakness, which may be particularly bothersome during ioitisl desage adjustment and with postural changes. Postural hypotension is most marked in the moming and is accentuated by hot weather, alcohol, or exercise. Warn patients to avoid sudden or prolonged standing or exercise while taking Ismelin.

sudden or prolonged standing or exercise while taking Ismelin. Concurrent use with rauwolfia dorivatives may cause excessive postural hypotension, bradycardia, and mental depression. If possible, withdraw therapy 2 weeks prior to surgery to avoid possible vascular collapse and to reduce hazard of cardise arrest during anesthesia. If emergency surgery is indiceted, administer preanesthetic and anesthetic agents cautiously in reduced dosage with oxygeo, stropine, and vasopressors ready for immediate use. Give vasopressors with extreme caution because patients on Ismelin may have a greater propensity for eardiac arrythmias. Febrile illness may reduce dosage requirements. In frank congestive heart failure not due to hypertension, Ismelin is not recommended. Due to estecholamine depletion and increased responsiveness to norchioephrine, special care is required when treating patients with a history of bronehial asthma, since the condition may be aggravated.

Use in Prognamoy
The safety of Ismelin for use in pregnacey has not been established; therefore, this drug should be used in pregnant patients only when, in the judgment of the physician, its use is deemed essential to the welfare of the patient.
PRECAUTIONS: Give very cauthously to hypertensives with (a) renal disease with nitrogen retention; (b) coronary disease with insufficiency or recent myocardial inferction; (c) cerebral vascular disease, especially with encephalopothy; and (d) rising BUN tevels. Give with extreme caution to those with severe congestive failure. Watch for weight gain or edema in patients with incipient eardlase decompensation. If digitalis is used with Ismelin, remember that both drugs slow the heart rate.

Added to the patient of the pa

Appetite auppressants (eg, amphetamines), mild atimulants (eg, ephedrine, methylphenidate), and tricyclic antidepressants (eg, imigramine, protriptyline, doxepin) may decrease the hypotensive effect of Isnelin, Wait one week after discontinuing MAO inhibitors before starting Isnelin.

Peptic ulcers or other chronic disorders may be aggravated by a relative increase in parasympathetic tone, Periodic blood counts and liver function tests are advised during prolonged therapy. and liver function tests are advised during prolonged therapy. ADVERSE REACTIONS: Frequent reactions due to sympathetic blockade—dizziness, weakness, latestide, syncope. Frequent reactions caused by unopposed parasympathetic activity—bradycardia, increase in bowel movements, diarrhea (which may be severe and require discontinuation of the drug). Other common reactions—inhibition of ojaculation, fluid retention, edema, congestive heart failure. Less frequently—dyapnea, fatiguo, nausea, vorniting, nocsuria, urinary incontinence, dermatitis, sealp hair loss, dry mouth, rise in BUN, ptosis of the lids, blurring of vision, parotid teoderness, myaigia, muscle tremor, mental depression, chest pains (aogina), eheat paresthesias, nasal congestion, weight galo, and astima in ausceptible individuals. DOSAGE: Initial desage should be low and increased gradually DOSAGE: Initial desage should be low and increased gradually

Before starting therapy, consult complete product literature. HOW SUPPLIED: Tablets, 10 mg (pale yellow, scored) and 25 mg (white, acored); bottles of 100 and 1000.

CIBA Pharmaceutical Company Division of CIBA-GEIGY Corporation Summit, New Jersey 07901

CIBA



by tension headache

Let Fiorinal help release the patient from the aching pressing, painfully tight feeling of tension headacha; its analgesic components help relieve pain while its sedative component helps relax the patient.

Each tablet or capsule contains: Sandoptal® (butaibital) (Warning: May be habit forming) 50 mg.; caffeine, U.S.P., 40 mg.; aspirin

U.S.P., 200 mg i phenacetin, U.S.P., 130 mg

Contraindications: Hypersensitivity lo any of the components. Precautions: Due to prasence of e barbiturate, may be habit forming. Excassiva or prolonged use ahould be avoided. Side Effects; in rara instancea,

drowsinaas, nausea, constipation, dizzineas, and skin raah may occur, Adult Dosage: One to two teblata or capsulas, repeated if negassary up to 6 per day, or as directed by physician. Bafore prescribing, see package insert for full product information.



Experts Fear Ecologic Risks Of Egypt's Aswan Dam Project

Medical Tribune World Service

CAIRO-Medical experts in Egypt fear the consequences of the drastic changes in ecology caused by the recently inaugurated Aswan High Dam.

The Soviet-financed \$1 billion project has expanded the country's cultivable land by nearly 2,000,000 acres and generated huge quantities of cheap electric power.

But medical specialists warn that unless proper precautions are taken, the project could encourage the rapid spread of such disenses as bilharziasis, malaria, ankylostomiasis, onchocerciasis, Bancroft's filariasis, cutaneous and visceral leishmaniasis, and yellow fever. Other health problems include a threat of bronchial asthma and dermatitis to archeologists working in tha

Some of the threntened diseases are as yet unknown in Egypt, while flourishing control project with extensive antisnail in the Sudan. But now the 300-mile-long chemical tests in Beheira province. Lake Nasser links the two countries, reaching into the Sudan along one-third

The lake waters, irrigation system, seepage areas, rocky as well as silted shores, cultivated lands, and damper climate provide ideal breeding grounds for a variety of disease vectors that include the Sudan's Anopheles gambiae and the sandfly Phlebotomus orientalis. The latter is a carrier

Migrants Could Bring Disease

Some other diseases, such as intestinal hilharziasis and Bancroft's filariasis, are prevalent in the Delta rather than in this area hut could easily be introduced by lafected flahermen and farmers migrating south, experts say.

Faced with these risks, the Egyptian Government has established a medical entomologic laboratory, which carries out vector sampling and parasite testing with the help of World Henlth Organization epidemiologists and hydrologists.

The most serious immediate problem in the area is hilharziasis, which costs the nation about \$200,000,000 a year in medienl care and lost production. Statistics indicate that one in every two Egyplians has the disease, and one conservative report

Supply of Nurses in U.S. Rises By 3%, Slowly Nearing Goal

BETHESDA, MD.-There are now 723,000 registered nurses in practice in this country, as compared with 700,000 in 1970, it is reported by the Division of Nursing of

According to this estimate, there are now 353 R.N.s per 100,000 people, as compared with 345 per 100,000 the previous year. Inasmuch as the increase this year slightly exceeds 3 per cent and last year's increase was less than 3 per ceat, it appears that this country is slowly mov-

ing toward a more adequata aurse supply. To ensure a high level of health care for patients, the Division of Nursing foresees the need for 1,000,000 R.N.s in praclice hy 1975, or 458 R.N.s per 100,000



estimates the new dam could expose another 2,000,000 persons, of whom 70 per cent could be infected. Proper water manngement and improved agricultural practices, however, could considerably re-

Research teams have found that Bliharzin-carrying snails infect the entire length of the lake's rocky shore areas. At present, only the type causing turinary disease prevails, but a WHO epidemiology consultant, Dr. M. H. Satti, says the intermediate host of intestinal bilharzlasis, Biomphalaria, could be brought by migrating hirds nttracted to the huge expanse of water. If not hy birds, he adds, it will almost certainly he introduced by infected fishermen and farmers migrating from the Delta.

WHO is sponsoring a large Bilharzin

Another major worry is the return of Anopheles gambiae from the Sudan. "It is needless to overemphasize this danger in view of the hitter experience in

Child la Lako Nasser region undergoes an examination. New disenses threaten the aren because of ecologic changes resulting from liak-up of Egypt and Suilan by the dam-ercated lake.

there were over 1,000,000 malaria cases and 100,000 deaths," said Dr. Satti. "If A. gamhiae is now allowed to gain n foothold in the lake aren, it would be much worse and the devastation would be farthe United Arnb Republic in 1942, when reaching in its effects."

Blindness Study Uni Gives Research Prize

NEW YORK-Drs. David H. Hubel z Torsten N. Wiesel, Professors of Neg biology at Harvard Medical School, a share the \$25,000 R.P.B. Trustees Ame presented by Research to Prevent Big ness, Inc., for outstanding achievement eye research.

"Drs. Hubel and Wiesel, in a scient partnership covering 12 years, have tree the path of light entering the eye to spen cells in the hrain," R.P.B. said. They he discovered that sight is controlled by hierarchy of brain cells, with each sing cell passing on a small fragment of his specialized visual information to a ges ing complexity of ecils, to be integrated into a complete image.

"They have found that vital functions these cells-inclinding the ability to may the signals from both eyes into a sing coherent image-may "turn off" foreign they are not properly stimulated by sink from the eye during a critical early staged

Their findings were said to be having revolutionary influence on the understand ing and treatment of strabismus, ambiopin, congenital, cataracis, and other seous eye disorders in children.

Full Urologic Diagnosis Urged for Abdomen Masses in Children

COLUMBIA, MO.-The importance of complete urologic diagnosis before the institution of treatent for abdominal masses in children was emphasized by two investigators from the University of Missouri School of Medicine here.

"The diagnostic dilemma presented by abdominal masses in children often engenders a sense of urgency that can provoke hasty and incomplete study of the tient," warned Drs. R. Mark Kirk and Ian M. Thompson.

"It must be publicized that the majority of these masses arise from the genitourinary tract and that complete urologic evaluation is acceded to avoid misdiagaosis or precipitous exploratory surgery and its attendant hazards," they declared.

"There are relatively few instances when a brief interval of additional urologic study cannot confirm or exclude a genitourinary derivation of a mass and thereby ohviate unfortunate situations that can be engendered by exploratory coelectomy," the prologists said.

During a 10-year period, 60 children with nbdominal masses of questionable causes presented at the University Hospital, and the genitourinary tract was found to account for 46 of the masses, or 77 per

cent, they said. All but five of these masses arose from the kidney, and hydronephrosis was the most frequent finding.

They called attention to similar findings by Melicow and Uson, resulting from a 22-year survey of 653 abdominal masses in children, in which benign conditions were found to outnumber malignancies and hydronephrosis was labeled "invariably the single most common cause of a mass.

Gastrointestinel Systam Next

Although the gastrointestinal system was the next most common source of abdominal masses, it accounted for only seven eases, or 12 per cent of the total. The biliary system was responsible in four cases, and the remaining masses were an islet cell tumor of the panereas, a malignant teratoma, and a mucocolpos.

"Although exploratory laparotomy eventually cun clarify the etiology of a mass, inadequate preoperative information can instigate an inappropriate incision and operative approach to the ahnormality, thereby prolonging the surgical procedure and perhaps hampering a definitive solution of the problem," the physicians said.

"Oceasionally," they added, "inadvertent disruption of important structures mmy engender an irreparable situation."

Annung the cases they described to illustrate the hazards of precipitous surgical exploration was that of a two-month-old infant with a large mass in the lower abdomen. Cystogram showed the hladder displaced anteriorly and to the right, and on the exerctory urogram the child had normal tracts but the ureters were dis-

placed anteriorly and laterally. Diagnostic possibilities were felt to include teratoma, iciomyosarcoma, and neurogenic tumor. On exploration, a large cystie mass was found extending from the pelvis. The mass was found in pass posterior to the bladder neck to a small pedicle between the seminal vesicles. When the pedicle was transected, the prostatic urethra was excised.

At this point, the physicians said, it was apparent that the mass was a large utrienlar cyst. Urologic consultation was obtained and the urethra repaired. In this case, the urologists remarked, it simple procedure, such as patiendoscopy, probably could have clarified the lesion and perhaps prevented injury to the child's

The report by Drs. Kirk and Thompson was presented before the Section on Urology at the 120th annual A.M.A. convention, in Atlantic City, N.J.



ar ambiotinal mirra

Rudolph Virchow (1821-1902) was horn 150 years ago in Pomerania. He received his medical degree in Berlin

He founded the journal, since known as Virchow's Archives, in 1847. It included medical, anthropologic, and historical articles.

Cellularpathologie, a medical milestone, was published in 1858. He stressed the cellular nature of life processes and that every new growth originates from pre-existing cellular components. East Germany issued the stamp in 1952, part of a series honoring fa mous Berliners.

Text: Dr. Joseph Kler Stamp: Minkus Publications, Inc., New York

Iris-Clip Lenses Used as Implants After Cataracts

Medical Tribune Report

LONG BEACH, CALIF.-Insertion of intracameral prostheses to replace lenses removed because of cataract has had a high rate of success, according to Dr. Henry Hirschman, an ophthalmologist here.

Nincty-six per cent of 150 lenses la-serted since December, 1967, have been tolerated well in a quict eye, he said. About 90 per cent of the patients achieved a visual acuity of 20/40 or better with correction after insertion of the lens, and onethird had 20/40 vision or better without correction. This latter figure could be improved considerably by predetermining the strength of leas required for emmetropla, Dr. Hirschman said.

The implants, which were placed in the anterior chamber of the eye, were thin, light-weight iris-clip lenses.

Seventeen dislocations of the lens occurred. One lens was removed, six were repositioned by surgical manipulation, and 10 were repositioned by drops. Application of pilocarpine 1 per cent twice daily. virtually climinates this problem, Dr. Hirschman said.

. He pointed out that even persons who can wear a pair of coatact leases have an awareness of the presence of a monocular contact lens, for if the lens has some movement, there are difficulties of binocular fixation caused by the prismatic effect of is moving vertically.

Difficulties were more frequently eacountered la the first 50 cases than in the last 50, he noted.

"It will probably be a long time before: this procedure becomes the usual treatment for cataract," Dr. Hirschman remarked. "Perhaps it never will. It is sufficiently difficult to discourage the occaslonal oparator. Minor complications with conventional surgory can lead to serious problems if a lens is inserted, especially so If there is any lack of gentleness.

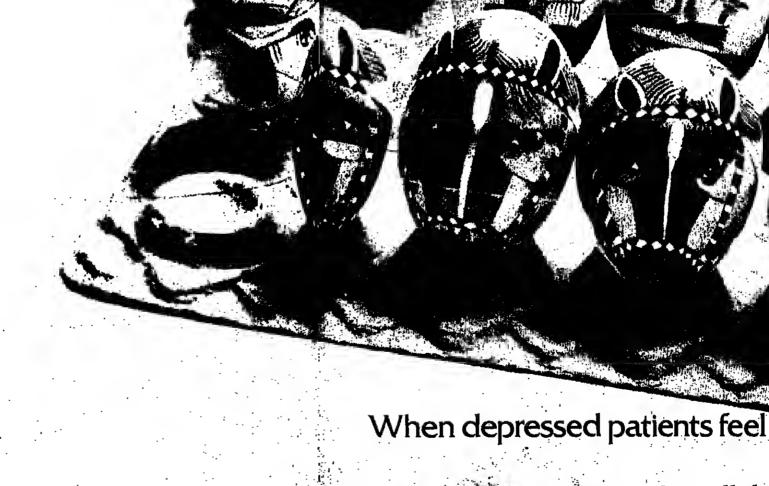
"At this time, it should be considered primarily for patients with monocular cataracts who have no specific contraladication and who are not good candidates for a contact lens.

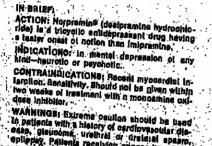
"The truly long-term results are not yet known, and every procedure must ultimajely he evaluated on that basis. We have reason to believe that these lenses will be tolerated in quict eyes indefinitely, but the iris-clip lens has actually been in use only 14 years."

Dr. Hirschman spoke before the Section on Ophthalmology at the 120th annual convention of the A.M.A., in Atlantic City, N.J.



Language descriptive of our everyday emotions derives from normal experience, pleasant or unpleasant. This common language, no matter how fluent, cannot convey the pathological desolation of the depressed patient. Rather, depression is communicated by symptoms, by symbol, by music, painting, ballet, or other art forms. For thousands of years in the Western World, long before it was published in Mother Goose, Humpty Dumpty, the broken egg, was symbolic of a shattered * life. In depression, the associated loss of self-esteem is so shattering and so remote from normal feelings and selfconcepts that the depressed patient feels his world is as irrevocably ruined as that of Humpty Dumpty-and that nothing can ever put it back together again. Fortunately, depression responds to today's therapeutic armamentarium.





ory should be caulioned about possible less. enlag of mental or physical spillies.

ening of mental of physical abililies.

PRECAUTIONAL Dasipramine hydrochlorido should not be substituted for hospitalization what risk of suicides of particular to considered grave. Autoidal ingestion of targe depages may be feight. It sortous adverse affects occur, reduce desage or after frontment, in petignin with manic-dapreasive. Illiness a hypomento niete may be induced, in achizophrenics, exacerbation of psycholats may occur, Petignia should be warned of possible prereaction to alponet. Discoulinite drug as soon as possible prior to plective surgery. May be useful with ECT but.

ADVERGE REPRESENT. was weeke in interment with a live of date inhibitor.

Washintings: Extreme oculion should be lived in patients with a history of cardiovascular discussion. It is patients with a history of cardiovascular discussion of patients with a history of cardiovascular discussion. Of psycholats may occur, Pellenia should be as pullping, Patients requiring gonomitant there applying the patients and similar, against drugs as soon as possible prior to include minutes may experience potentially of sympathon drugs. But the pregnancy has not heart established. Do not use to children index and similar, against on the pregnancy has not heart established. Do not use to children index and similar against index and similar against index and simular index and similar against index. Palphation, delayed urination, against and said all application ("unriness." "nervolusess." 50.1

"anxiety," "Insomeis"), bad laste, sensory R-tualon, linnilus, awesling, drowsinssa, hasd r acho, hypotonnion torino statio), liushing; neuses, nysotonnion (orino aistip), mannens neuses, crimps, weakness, furied vision and mydriasts, fash, tremor, altergy (general), at jared tiver function, alaxis and extrapremide night; agranulocytosis. Additional side pilech nights, agranulocytosis. Additional side stiects more teeranity reported include; saizures, costnophilis, contusional attest with halluchautona, purpura, siphiceansilivity, galactorines, gyrecomestis, and impotence. Side allegte which could oncur (ahalogy to seletial drum) include weight gath, hearthurn, anciexis, and hand-arm perceibestes.

DORAGE, Optimal results are obtained at a desage of 50 mg. I.i.d. 150 mg./day).

EUPPLIED: NORPHAMIN (desipramine hydrochipride) tablate of 35 mg. polities of 50, 500 and 1,000; and isblert of 50 mg. in bottles of 59, 250, and 1,000.



that all the kings horses and all the kings men cannot put them together again...

improvement often begins in 2-5 days

NORPRAMIN (desipramine hydrochloride)



HATTINE TO SECTION

THE PERPLEXING QUESTION of lire selection often heads the list of automotive inquiries, particularly as car manufacturera now offer a wide choice of lires on

The Federal Government also joined the net: since May 22 all passenger car lirea have been required to carry B code number and companies must record who buys tires and even the type that is purchased.

Should you have a blowout it is, therefore, a matter of record what kind of tire blew; the Department of Transportation, your insurance company, and possibly even the IRS will know if you didn't buy proper tires.

Following ore some of the commonly asked questions about tires:

Q. What is the difference between "first line" and "original equipment" thres? A. Tha answer is simple. For years most new car manufacturers have not used "first

line" or premium tires on their new cars. The "original equipment" is often inferior, usually constructed with rayon cord rather than nylon as in the premium tire. The tire itself is of cheaper construction ood gives less mileage than the "first line" or premium tire.

Many car manufacturers ere now offering a choice of tires to new tire purchasers. You can have tha stendard "original equip ment" tire, which, by the way, has been upgraded due to pressure both by the Government and consumer groups. Or you can choose the premium tire. For safety's sake and probably in most cases also for long-range economy in terms of mlleage, it is best to pay the difference and gel the latter, which may olso have a wider and better designed trend that improves traction and resistance to skid, particularly is mud or snow. Q. What are radial tires?

A. The radial tire now boing manufoctured here is being offerad as an option on some new cars and recommended on others. Many radials, of course, are still imported.

The difference between the radial and conventional tire lies moinly in the pattern of Interior cord layers. In the radial, theac layers are arranged of cross angics to the tire's outer covering. This is in contrast to the atandord tire in which the cords cross the anreace ohliquely. The radial tire tends to be softer, with a more balloon appearance, so much so that users often worry that the tires are going flat.

This softer, somewhat bolloon shapo mokes for added road-holding ability under average conditions. As modern automobile suspensions are improved, the less rigid design of the radial lire gives better tread contact with the road surface, thus Improving car confrol and giving a more even, smoother ride.

A word of caution should be noted here, however, for there are drawbacks. Since radial tires are more sensitive to changes in air pressure, they can become dangerous if tire pressure is not checked regularly something that few motorists remember

Q. What about the "glass" lires?

A. These tires are constructed with cords made of Fiberglas. When used as additional layers over the surface, this material makes for a firmer tire that is not easily punctured. In the specialized application of the "belted" tires, extra cords are run around the tire under the tread. These elts hold Iread flat to road surface and prevent tread squirm, which means longer

Again there are drawbacks, The firmer tire, like the dry pencil eraser, is less "sticky" than softer tires - thus to the owner of the light compact car and parlicularly the "sports car" the wear advantage does not offset this disadvantage.

The major complaint, however, concarns balance. The added weight of the Fibergias belts can cause a tire imbalance that creates a constant bounce, resulting in a tire "out of bounce." At this point the best solution is tire replacement. Q. What about ply?

A Ply is the name given the layers of cords that form the tire shape and supply

strength. "Two-ply" means two layers of cords. "Two-ply-four-ply rating" means that cords of double strength are used. However, it is generally believed that ordinory four separate layers make for hetter construction. In most premium tires this two-ply-four-ply rating gimmlck is not used. It is noteworthy that the trucking industry sticks to the straighforword "fourmeaning four layers, or "six-ply," indicating six layers.

At present, particularly for the heavier automobile, the best type of thre is the belted radial, a combination of the two

There is probably no better investment for the passenger car than good tires. It is not a luxury; to use en often repeated adage, "your life depends on it."

Editor's note: Queries to Cor Clinic should be addressed in care of MEDICAL TRIBUNE.

Composition: Rondec 514 Ayrup, C14 Chewable, T14 Tablet contains 2.5 mg carbinoxamine malsala; 60 mg psaudaephadrine hydrochieride per 5 milesspooniul/ lebiel. Rendec-0.M14 Syrup contains the above plus 16 mg dextromathorphan hydrobromide, 100 mg glyceryl gualacolete, 3.5 mg chioroferm (some less unavoids bie), alcohol less than 0.6% per 5 milesspooniul.

Rondec DIM Oropa conjeins 1 mg carbinoxamina maleais, 30 mg pasudoephadrine hydrochloride per 1 ml dropperful.

Rondec-DM^{*} Drops contains the above plus 4 mg dextromethorphen hydrobromide, 20 mg glycaryi gualecolate, 0.7 mg chlorolerm taome losa unavoldable), alcohol teas than 0.5% par 1 ml dropperful.

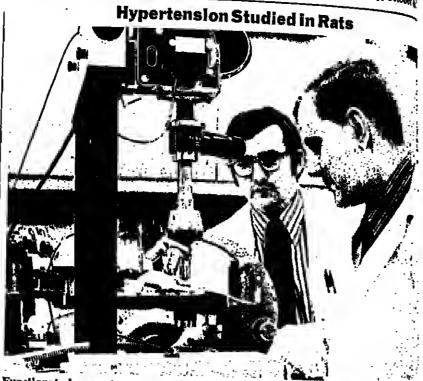
Acties and Usesi Carbinoxamine majes (e is an aniihislemine drug with e therapau(ic index (railo el median lethel dose to median effective dose in guinea pigs) thet is 2 to 50 times that el chiorphaniremine, pheniremine, diphenhydremine dence of side ellects, particulerly the sedelion associated with these agents. Sedation when it occurs is generally mild beautionant.

Pasudosphedrine decongests swollen mucous membranes of the respiratory traci by vasoconstriction and epene obstructed broncht. While the vasoconstrictive action of pasudosphedrine is similar to that of aphedrine, it esems to be more specifically the systemic circulation, it can be more specificated to the systemic circulation. Pasudosphedrine has been shown in clinical and laboratory traci and tess person of the circulation of the systemic circulation. Pasudosphedrine has pressor effect at usual dosages.

pressor effect of usual dosages.

Destromethorphan hydrobromide has been demonstrated in clinical triels to produce an entitussive effect equal to that clinical triels to produce an entitussive effect equal to that of codelne. It acts centrally to elevate the cough threshold. The incidence of also reactions in long-term clinical triels had been remarkably low and no greater than that occasioned by placeto. There is no liability of addiction, At usual dosage it will not debreas resolverious or unlibit clitary activity.

Glypsyr gualacolate has been singen to increase the rate of



Functional changes in arterioles and venules during development of hyperical and how vessels react to feor, onger, pain, or other stimulation, are being studied investigators at the Bowman Gray School of Medicine with specially bred no be develop hypertension the seme way as human beings. Above, project director, Phil Hulchins, Ph. D. (1.), and graduate student II. Glenn Bolilen check vasculature hyperiensive rai. Nalional Heart and Lung Institute provides ficancial supple

'Utmost Respect' Is Advised In Treatment of Neck Injuries

W. O. M. Charles and Control

Medical Tribune Report

BUFFALO, N.Y.-Failure to diagnose a minor fracture in the neck may be of little anism of injury can be described. From consequence but failure to identify a this we may deduce the type of injury that major fracture or dislocation can be dis- occurred." astrous, and therefore all neek injuries should be treated "with utmost respect," according to Dr. J. William Fielding, director of orthopedic surgery at St. Vincent's, St. Giles, and Polyelinie Hospitals in New York.

"If neck injury is strongly suspected but cennot immediately be diegnosed by standard techniques, the patient should be protected by bed rest, trection, o coller, or other means pending further studies," Dr. Fielding soid here at a postgraduate course on sports medicine held hy the American Academy of Orthopaedic Sur-

"Recognition of hidden neck injury is based on a lively ownreness of the possibillty of injury together with occurate clinical and radiotogic assessment. The pa-

tient entinut he expected to make the diagnosis, but in many instances the mech-

Dr. Fielding eautioned that the neck of every person with head injury should be

x-rayed if the head injury is severe, essaciated with neck pain or radiating pain that neight arise from the neck, if it is of the type known to bc associated with neck injury, or if the physician suspects neck injury for uther reasons. X-rnys should

that encompass the entire cervical spineanteroposterior, lateral in neutral, oblique views, and the open mouth view of cervical I with the chin in motion.

"Do not stress an injured neck," he

he taken, he said.

nitded. "In stresseit tlexion and extension allow the puttent to position his head unalried."

"If muscle speam prevents mollan, wait until the spasni subslites. Lass of cervical lurilusis comnot always be cunsidered indicative af neck injury....Cinerediographic studies may be justified to clarify the diagnosis or methad of treolment efter adequete stendard x-rays."

Dr. Fielding stressed that congenital lesions, variations from normal, and stages of normut development may sometimes mimie neck injuries. Because such lesions can be misleading it is important to differentiate them fram fractures, dislocatian,

Osteoarthritis Seen in Players On a Canadian Football Team

► A comparative study of 59 mcmbers of a Canadian professional football team and nonathlete controls showed that 100 per cent of the former exhibited signs of osteoarthritis fsevere signs in 70 per cent), against unly 4 per cent of the latter, it was reported by Dr. Carroll A. Lnurin of

X-rays were taken of the ankle and fool of the players when they arrived for spring training and also of a control population

of nonathletes with the same average age 123) as the professionals.

Analysis of the players by weight and position found that the offensive and defensive linemen were the heaviest and displayed the most severe signs of osteoarthr-

Dr. Laurin suggested that linemen may be more vulnerable to ostcoarthritis not only because of their weight but also because of the way they play foothall, "They work in a crouch position in which there is an acute dorsiflexion uf the ankle, and their contact is a constant pressure which is more damaging to the cartilage than the short, frequent blows sustained by half-

Hand Dynamometer Suggested To Test High School Athletes

From Ohio State University

► The liand dynamometer, a device to measure the strength of the hand grip, was recommended to evaluate junior high school athletes for participation in competitive athleties by Dr. Thomas E. Shaffer, of Ohio State University College of Medicine.

The youngster's gripping power is a reliable index of his physical maturity, said Dr. Shaffer.

"The hand grip test is not a substitute for a yearly physical examination, but it is an excellent supplement and can be done on a mass hasis by the school nurse, coach. or physical education director," he ob-

Sercening junior high school students to match them for competition in athletics is essential in preventing injuries, he said, noting that not all boys ere physically mature enough for collision sports.

"Wrestling is perheps the only junior high sport ideally edapted to provide even competition for boys regardless of their size end weight," Dr. Shaffer snid. "Tennis, track, golf, and swimming ere elso suitable for youngsters who do not meet the requirements for vigorous contect

Ban on Cross-Body Block At Knee Level Suggested

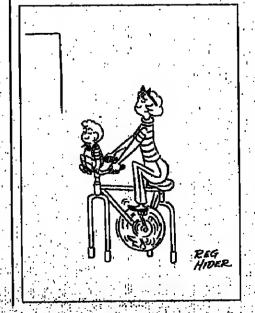
Medical Tribinie Report

CLAVELAND-A bon on the cross-body block at knee level, which he likened to a rallroed tie thrown against an unprotected knee, was urged by Dr. Thomas R. Peterson, of the University of Michigan Department of Orthopedic Surgery, at a sports medicinc aymposium here.

Hc reported that a review of 189 leg injuries incurred over n 10-year period by athletes et Michigen State, et the University of Michigan, and on the Detroit Llons revealed that 54 per cent had been oaused by the cross-body block.

In enother series of 370 knee injuries, 50 per cent had resulted from cross-body tackling, he said, adding that the blockers were themselves frequently injured, suffering pneumothorax end broken ribs.

The symposium was jointly sponsored by the Clevelend Clinic Educational Foundallon, tha Ohlo State Medical Associetion Committee on Sports Injurias, and the Cleveland Acodamy of Medicine.





Children do well with an oral decongestant

Topical decongestants work fast, but don't go far enough. Thay don't shrink all the naset and sinus

Rondec Sorsl decongestant shrinks mucous membranes and blocks histamine

Shrinking mucous mambranes from the ttp of tha nose down to tha bronchl, psaudoaphadrine is apparantly more specific than ephadrine for the vassels of the respiratory tract. But it has fewer side effects. Pressor action is minimal. Significant CNS stimulation is rare. It doesn't causa rebound congastion or irritation.

Carbinoxamina has a high leval of antihistamina activity. And whila sedation may occur, it is generally mild and translant—shouldn't giva a school-age child that wooden-haadad faaling.

Rondec-DM adds cough control that's

non-narcotic The dextromethorphan hydrobro-nide in Rondac-DM controls unproductive cough without the constipation and respiratory depression associated with nercotics. Drowsinass or gastrointestinel upsats rerely occur.
And glycaryl gualacolate works to
thin bronchief secretions.
Two products for dependabla reliat of cold symploms. Two good flavors kids lika. And a low incidance of sida affacts.

That's the long



cut cold symptoms down to size

cerbinoxemine maleate. However, it is generally mild and interance appears to develop rapidly in most cases. Patients particularly sansitive to antinistemines may experience moderate or severe drowsiness.

Administration and Desages Clinical Irials emons series of infents and children indicals that the usual dosage frequency of four itimes delity is effective and well tolerated. Acceuse response to the ingredients will vary according to the litness and type of pallant under treatment, dosage should be adjusted by the age and clinically datermined needs of the individual pallant, in mild cases, dosage and/or frequency may be reduced.

costy of bronchial secretions. Although similar objects measure ments have not been accomplished in humark in cal studies in adults and children indicate it is an electron with virtually no adverse reactions. The action

evidence suggests that giveny guaractals has a disct effect on bronchial secretary glands tollowing absorption this the bloodstrain.

Indications Rondec DSC and T are indicated when his mit blocking, mucosal decoupagion and prochodision at

Indications: Rondec DSC and T are Indicated when history blocking, imposal decangestion and processed in upper and joint respiratory tract disorders aftergic, infectious or ronnepecitic eliology:

common coid - altergic rhinitis - nasopheryngitis - smitter oillis media - eustachian tube obstruction - bronchist itrachellas - sayingitis - croup - in patients with nasopheryngitis and a history of oillis media - trachellas - traup be used prophylactically in permittenden DSC and T may be used prophylactically in permittenden described to the distribution of the control of unproductive configurations of the configuration of the configurations of the configuration of the configuratio

* silerate cough - recurrent cough due to recurrent respe-tory infection - bronchilit and bronchila cough - nesses gliat with postnasse drip - common cold.

Sink with postnassi drip - common coid.

There is no known contraindication to the use of Randell and Y or Rondec DM as solunctive therapy to antibiotic when ratio of mucoles congestion and cough is definitely trained in mucoles coughs at the cough and cough is definitely that the sale of the coughs with all the properties and side attended in normal centre of the with caution in hypertensives. While the majority of the with caution in hypertensives. While the majority of the with caution in hypertensives. While the majority of the hydrochiloride, those perfectionly sensitive to smooth the sensitive in an account of the sensitive in a sensitive in a sensitive in a sensitive in the sensitive in

Rondec S Syrup Rondec C Rondec T Rondec OM Syrup Chewable Tablet Frequency 8 mos 1/2 dropperful 1/2 chevisble d.l.d. Tyre & 1 teaspoonful : 1 chewable 1 tablet q.l.d. I jablel g.l.d.

Mild gastroinisetinal disjurbance and drowsiness have been Paliania should be caulioned to exercise care in driving or operating machinery until the possibility of drowsiness is determined. If a senallivity reaction or idiosyncresy should occur, raduce dosage or withdraw the drug.

Dosage Schedule:

Rondec O Oropa Rondec-OM Oropa Frequency

Adults I tesspoonful

is available in 16 ft oz (1 pint)

Rondec-DM Syrup

botiles, List No. 182. Rondec C Chawable, scored tablal with lutil-fruit flavor, is available in bottles of 100. Each lablal marked with Ross R and List No. 181 for professional identification.

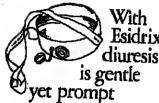
Rondec T Tablet is systleble in bottles of 100. Each Filmtabe lablet marked with Ross R and List No. 180 for professional identification.

Rondec OM Drops is evalleble in 20 ml botiles of grape-levored dropper dosage. Calibrated, shalterproof dropper anclosed in the certon. Unique Spil-gard* closure prevent aptiling when dropper is ramoved from bottle. List No. 186. Ronder-DM Syrup, grape-flavored, is available in 16 ff oz (1 pint) bottles, List No. 187. dec OSC&T and Rondec-DM are available on

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ROSS Division of Abbatt Laboratorias, u



Avoid the complications of diuretic overdry"



No one denies there's a time and place for a highly potent nonthiazide.

But most patients rarely need it. Which is why hydrochlorothiazide - originated by

CIBA as Esidrix - remains the most widely used oral diuretic.

With Esidrix you usually avoid the abrupt flushing out common with fastacting nonthiazides.

Diuresis is prompt; edema is relieved gradually over a 12hour period. Which is usually fast enough. Just as important, it's smooth and gentle.

Moreover, the risk of serious salt and water loss is reduced.

However, since fluid and electrolyte imbalance may occur, patients should be watched closely for clinical signs (please see brief prescribing information).

Things are complicated enough for the edema patient. Rely on Esidtix, the smooth, gentle diuretic. Particularly in maintenance

Proven by over a decade's use in hypertension

Esidrix is still unsurpassed as a diureticantihypertensive. Labeling for one newer nonthiazide states: "Hypertensive patients who cannot be adequately controlled with

controllable with

to severe cases.

also not be adequately o.

According to Newsweek, the headmisress of a girls' high school in Johannesiurg, South Africa, has banned peaniit utter sandwiches from her charges' lunch thatzicles will probabilisise. No wonder those squirrels carry on

* FM Guide informs us that the British furtisemide alone. Broadcasting Company claims credit for And Esidfix is adio) play. The play deals with one roman massaging another in a Turkish ath, and its producer explained that "it, and its producer explained th resenting the first nude radio (repeat mile hypertension. As was essential for the girl to be nude so that all adjunct in mild re could broadcast the true sound effect of ar bare body being massaged."

The actress who pleys the masseuse juoted as worrying about the effect of the slay on male listeners who happen to have t turned on on their cer radios while

Dur British sister, Medical News-Fribune, in the course of a brief discussion of the limerick, published the following me hy a Dr. T. F. Bostock of Leicester: Ere he sleeps with o strange pretty

Should spare o brief thought for his

Small profit to spancre

When bltten by chancre

Or to wail, "Why am I so crassaman?"

· "In n major diversification move," says a release from a public relations outfit, "Electronic Transistors Corp., (OTC) plans to manufacture ond market the first birth control foam specially formulated to combine both contraception and prophyfactic protection against venereal dis-

Now if thay'd only work in one of their ransistors so it would also lock the doors and do the dishes, that would really be najor diversification.

A Soviet newspaper, -according to United Press Internotional's wire service, claims there is "scientific evidence smok-Ing lessens sexual activities of men 40 years old and older or eveo as young as

The following abstract turned up in a SIECUS Newsletter:

"The Scylla and Charybdis of Psycho-Sexual Development. Alsn P. Bell*, The Journal of Sex Research, Mny 1969. "A senior research psychologist at the Institute for Sex Research suggests that

neither heterosexual nor homosexual orientation can be considered more or less mature than the other, Each may be detarmioed by equally severe but different anxieties which arise inevitably from tha father-son relationship." Apparently you're damoed if you do

and damned if you don't, and women homosexuals have it made, lacking all contact with that father-son conflict.

·Heaveo only knows where this is going to lead, but a release from the University of the Michigan opans with the following

Researchers at the University of Michigao Hospital have daveloped a low-cost polyvinyl gelatin with the consistency of

· Apparently the cosmatics manufacturers will do anything to make a fast buck. We read the following (with a bad case of the sbakes) in After Dark:

"Well, it's finally happened. Someooe has created a flavored hygiene spray for men...that is tasty as well as hygienic.... The Spray will become an averyday 'must' for many . . . [and] is available at \$3,50 a can in three flavors: Lime Erotica, Fruit Amhrosia and Lemon Delight, Look for it in better men's slores."

We can't help wonderlog which will happeo in the lives of a completely brainashed couple, she with ber special "hyspray and he with his, on the day ey get their sprays mixed up,

And better than what or which men's wres? if it comes to that.

Tribune Economic Analysis

'Power Brokers' Use Freeze **To Negotiate for New Deals**

By ELIOT JANEWAY

THE PUBLIC GREETED The President's emergency economic proclamation as the instant solution to everybody's problems. But now, on schedule, the professionals -"the power brokers," es Mayor Lindsay calls then-are playing it es a bargaining opportunity to negotiate new deals for their respective groups. All of them will, The problem will finish last as usual.

A normalized emergency is not without precedent as a start-up exercise in emergency management by Government control over the economy. But it is with-

out precedent as the first such genuine exercise to start without a new war to provide cover and authority for it. Truman proclaimed the Korean emer-

gency on a Sunday. The country woke up Monday morning to find the economy in a deep freeze, with the controls put hack to en early enough hase period to hurt. Despite the draft and the casualties, Trumen played to overwhelming salvos of applutise. Pollwise and opinionwise, just about everyone was for him the morning after Korean Sunday-even more so than people were for Nixoe when he signed off the air August 15. But the same crowd that salued Truman's decleration of emergency by sending his popularity over the top seared him out of office less than two years later. Time had got ahead of his management of the emergency, end his n magement never caught up with it. The parallel is beginning to be operative, and o is the moral.

Woshington's latest devaluation has othing to do with the dollar. It will coninue to do even better-es it bobs up in response to the combined bidding of official buyers (afraid to let it drop so long as one example, the aluminum production the American economy continues to decline) and private short sellers (stampeding to cover). But, then, currencies are not the only official medie of exchange subject to devaluation. The credibility and tha eutrhese pace-setting economies. thority of Government policies is too.

A "Welt and See" Attitude

The more the Administratioe puts out stories about the changes it will ennounce on the 91st day, the more it stacks the odds against its chances of salvaging plausible, much less acceptable, performance for its exercise in administrative penic over economic panic. "Wait and see" was the attitude responsible for bringing the slowdown in the economy to the panic point in the first piece. "Wait and see" is scarcaly the cure for the comploint. The Harris poll now confirms my warnings that the President's most enthusiastic applause is coming from consumers playing tha same 'wait and see" game of what the President does before they spend their money.

"Nowhere to go" lo the direction of a harder freeze is the position Nixon put bimself in by his emergency switch from hands off the economy to the opposite extreme of a freeze. There's no woy ha cao change the controls sctup to make it

tougher. But hecause the money users' attitude of "wait and see" is his problem and persuoding money users to "go get it" is the solution, only the threat of still stiffer regulations exactly as prospective buyers react to the threat of higher prices hy holding hack.

The fatal hlunder-and it is nothing less -is not only permitting but ectually encournging officiel gossip ebnut chenges in the start-up controls setup. Even e stock peddler quoting from e market research report can see that the only change possible in the freeze is to thaw it into new controls easier to work with. Official apeculation about the second edition of the controls on the 91st day is underwriting still more "woit and see." Incscapably, this speculation is compounding the dnmage that the controls system was launched to

The softening economy is still softening -and not just inside America. In fact, the slowdown is proceeding at a fester rate in strong foreign economies then in the American economy. Understandably so, because it has further to fell in the Germanys, Japans, and Australias. To take cutbacks announced in Australie are radiating shock waves in Japan, whosa materials buying rate in Australia has been

Such indications of initial softaning in the world economy are bringing in their wake a secondery softening: the downward treed of overseas export prices. The collapse of oceangolog freight rates was a reliable early worning of tha developing distress. The overseas suppliers of fabriceted products to the American market ere scrambling to cut their prices to absorb the 10 per cent border tax. As fast as they do, they are inviting the American business buyers to hold back. The Americao consumer will accept the iovitation to hold back too. But the international part of the President's program is far and away the strongest. The softening lo tha world economy is caccellog its banefits before it can taka hold. Little wonder that the weakar parts of Nixon's program ere not

working either. Clarifying the import tax action la very much in order. I have been unreservedly advocsting severe import limitations of year long, by way of implementing my judgment that the spring improvement

To Get Pediatrics Award

Anterican Academy of Pedletrics has selected Dr. Melvio Grumbach to receive its 1971 Borden Award. Dr. Grunibach is Professor of Pediatrics and department chairman et Univeralty of California School of Medicine. The award will be presented at neademy's annual meetlog this month.

would peter out into e seasonel "strike cycle" flash in the pan.

If the Administration hed moved last spring, before the economic softaoing became world-wide, the dollar border tax would have had more of e chance thao it can have now: the softeoing pressure on world product prices is already undercutting it. The business end floancial establishments to Europe and Japan have been holding their collectiva breath and continuing to finence overproductioo in the hope that Americe's 10 per cent border tax will prove only a temporary treuma.

A successful emergency cootrol effect would have done well mercly to hold the line against the further deterioration threateoiog to push the economy past tha panic point. The plus achieved by this first fumbling lunga at a quasi-permacect controls setup is that It has bought time and cover for the continuing daterioratioo. The deterioration is continuing with time runnieg ngainst it end with none of the regulatees gulding tha harassed emergency manngers towards a less clearly uoacceptabla ond unworkeble secood-step system.

Winniog the new war against ucemployment, the dreg of sbort time, and the loss of overtime is Americo's challenge today. Persuadlog business to buy and, therefore, to hire is the way to meet it.

Offere No "Windfall" Bonanza

On the merits, the investment tax credit offers no "windfall" bonanza to business for just sitting tight. Busloesses become cligible to qualify for the investment tax credit only to the extent that they put their own money on the lina for new lob-making commitments. Tax cuts offered consumers are a chancy hope that the money would start to be spent instead of banked-as the last tax cuts to consumers were. By contrast, hard-cash performance by business is the criterion to qualify for the investment tax credit.

Practiculities do oot always reinforce the merits of any cootroversy in America today. In the case of tha investment tax credit, however, they do. The real worry of America's frighteoed payrolless is not whether the employers may make a killing by seizing the investment tax credit President Nixon is offering. It is, as President Meany has suggested, that business may see oo caroings incaotive to use the proposed tax credit.

The equities always command respect in any argument over American public policy. But the practicalities of jobs for the Americans who want and need them-and of longer work weeks for the American squeezed in by short time—are asserting the overriding equity io today's debate over how to do more in order to earn more. If America's business profits fall beyond, and below the reach of incentives to spend for rehiring, the cry of "windfall" has a bollow riog.

star of stage, screen and television. Esidrixe (hydrochlorothiazide)

patients with renal disease, thiazides may precipitate azotemia. Cumulative effects may develop in those with impaired renal function. Dosage should slways be Indications: Edems and hypertension.
Contraindications: Aouris; discontinue
drug if renal shutdown occurs for any
tesson. Progressive hepsite disease may
accelerate development of hepatic corns.
Do not give to patients with known
allersy to this ides or other sulfoosmidederived drugs. carefully thrated.
Pay special steendon to electrolyte

Pay special attention to electrolyte balance of patieots with severa hapatic insufficiency. In patients with circhosts and ascites, watch for symptoms of impending hepstic coma (confusion, drowniness, tremor) and test for increased arterial ammonia concentration, sodium and postusium excretion. This sides may decrease giurose mistrares una carricular. Warningss Small howel stenosis, with of without ulceration, hes been associated with use of emeric coated triazides with porasilum, and with great blazides with in diabetics. Hyperuricemia may occur but is generally reversed by a unicospric

jonasium, and with enperk-coated posasium alone. These bowel lesions have caused obstruction, itemorrhage, and perforation; surgery was frequently tequired and deaths have occurred. Although the incidence of these lesions is low, and a causal relationship in man has not been deficitely established, enterior-coated possistum salts have been implicated. Therefore, coated possistum containing formulations should be used poly when dietary supplementation is not practical and discontinued immediately if abdominat pain, distension, nauses, vomiting, or G1 bleeding occurs. Lowering of blood pressure in hypertensive pacingus may sometimes result in factorios, resention; in rurn renal blood. How is reduced, particularly in those with impaired renal function. If progressive trend invufficiency is observed, discontinuants of drugs may be desirable, in but it generally reversed by a uricosuric tigeor.

Thiszides may decrease arterial responsiveness to norepinephilos and increase responsiveness to tubocutarine; if possible, withdraw thempy 2 weeks prior to surgery. Hypotensive episodes under ancischesis have been observed, if emergency surgery is indicated, preansathetic and so esthetic aganus should be administered in reduced dosaga.

The possibility of sensitivity reactions should be considered in patients with a history of allergy or bronchild asthma.

Use in Pregnancy

Use in Pregnancy
This sides should be used with caution
in pregnant of lacenting patients since
this diag crosses the placental barrier

cytopea is, or altered carbohydrste metab-olism. It is therefore possible that the adverse reactions seen lo the adult may

Precautionar Perform serum potassiom, BUN, uric acid, and blood sugar tests prior to and at appropriate intervals during there py. Wanch patieots for clinical signa of fuld or electrolyte imbalance (hyponaremia, hypothoremic alkalosis, hypokalemia). Warning signar dyness of mouth, thirst, weakness, letharon deowinest, tettes, weakness, lechargy, deowinest, retriesmess, muscle palos or cramps, amuscular fatigue, by potension, oliguris, tachycardis, Gl disturbance. Serum and uriae electrolyte determinations are particularly important wheo patient is vomiting ercessively; receiving para oseral fiulds, attended, or ACTH; during brisk diuresis; in presence of severe cirrbosis.

devere cirrhosis.

Interference with adequare oral larake of electrolytes will also contribute to hypokalemia. Digitalis may earggerate membolic effects of hypokalemia especially with reference to myocardial activity. (Signs of digitalis totox keaton may be produced by formerly tolerated doser of digitalist.) Hypokalemia may be avoided or treated with appelemental potassium rich foods, Sapplemental potassium is indicated when seriam potassium is indicated when seriam potassium is a med limy priess, or if patients is pectiving digitalis. Chloride deficit may be corrected with

ammonium chloride (except in those with hepatic or renal disease) and largely prevented by a nonrigid self intake. If dietary salt is onduly resulteted, especially during hot weather, in severely edematous patients with congestive heart failure or renal disease, a low salt syndrome may compileate therapy with chiazides. Hypertusicemia (or frank sport) may be precipiented to certain patients. Insuling requirements to disbetic patients may be intreased, decreased, or unchanged. be increased, decreased, or unchanged.
Latent disherer may become manifest during chiazide therapy.

If olsopen serention indicases conset of renal impairment, discontione drug.

Adverse Reactions: Gaurointended—
Adverse Reactions: Gaurointended—
anoexis; gauric irritation, nauses, vomi
ing. cramping, distribes, constipation,
ing. cramping, distribes, processis,
central nervous system—diztiacts, vertigo, patenthena, headache, zasthopsia,
Dermisologic hypersensityley—purpurs,
photosensitivity, rath, urries is, astrovising angliris, Hematologic—lenkopesis,
thrumbocytopesis, aganulocytosis,
aplante anemia. Cardiovascular—outhostatic hypotension may occur and may
be potentiated by alcohol, barbinatais,
or naucoics, Micollancous—muscle
apiam, weakness, resteurous, whiteadvante patentois are moderate of severe,
reduce dorage or widdraw therapy.

Bosage, Tablest should be more

Doegger, Tablets should be taken with

mmediately after meals. EDENA: lauld -- 50 to 100 mg onte or take thaily for several days, Maistenant-25 to 100 mg daily or intermi Refrectory parients may require up to 150 mg daily.

11YPERTENTION: [obial—Unail dot 75 mg daily. Aleisteante—After 1 red datage may be adjusted downward to 8.]

Little 12 25 mg or control of a control 21.

little at 25 mg or upward to as much # 150 mg daily may be required Con-bined i byropy - When necessary, one entity percentives may be added gradul-end with coursion because of the postedand winters of this drug. Dosses of geoglosic blackers should be hilled. Supplied: Tables, 50 mg (yellow, scored) and 25 mg (pink, scored); bottles of 100, 1000, and 5000. Consult complete literature before

CIBA Pharmaceuscal Company Division of CIBA-GEIGY Corporates Summit, New Jerrey 07901

MEDICAL MEETING SCHEDULE

Foreign Meetings

. International Coogress of Aviation and Space Medicine, Tel Aviv Ontario Speach and Hearing Asso-ciation, Annual Coovention, To-Nov. 4-0 ... Contains Speach and Covention, Toronto Callan, Annual Covention, Toronto Nov. 11-14 ... Asia Poelfic Congress as Diseases of the Chest, Talpsi Nov. 14-16 ... Japan Neurological Society, Annual Maeting, Tokyo Nov. 14-20 ... Caribbean Modical Conference Confederation, Kingstan Nav. 19-20 ... Norwegian Otolaryngology Society, Annual Meeting, Osla Nov. 19-22 ... Congress of the Asian and Ansiratian Society of Neurological Surgeons, Tokyo Nov. 19-23 ... Colombian Psychiotry Society Congress, Medolila, Colombia Nov. 21-25 ... Colombian Psychiotry Society Congress, Medolila, Colombia Nov. 21-25 ... Conference of Laita American Medical School Facuities, Startestols Nov. 22-26 ... Asian-Pacific Congress of Radialogy, Helbourae, Austrália. Nov. 24-26 ... World Federation for Bonial Hooling, Hong Kong

Neurology, Bonibay, India

Afro-Arian Symposium, on Chame
therapy of Schleiesonnia sia, Cairo ... Iotarnational College of Psycho-somatic Mediaino, Gaodalojara Maxico Maxico

Dec. 5-10 ... Latin Americae Congress of Parhology, Maracaibe, Veneruela

Dec. 89 ... Conadina Association for Research in Textendary Annual Symposium, Mantreel

Dec. 11-12 ... Belgian Sasiety of Otorhinalaryngology, Brussels

Dec. 12-16 ... Ibero-Lajin-Americae Congress of Decreasions of Congress of Decreasions of Congress of Decreasions of Congress of Co

Dermaiology, Caracas Injuranterican Congress of Psychology, Pasomo Cisy

Internst long! Conference on Rodioactive Isotopes in Clinical

Medicine and Research, Badgestain, Austrio

Jan. 27-19 ... American College of Surger Sydney, Australia

